

acacngaaag gaaggctcaa attanggggt gtnncacatt tatcaggagg taagatctcc 120
atagtctcct acccctcctg ggcctggcct tttactgtgg tatccancct ctgggaanac 180
cttgatgga cagtatctcc actggggcta tcactagggtg accaggtagg ggacananta 240

na 242

<210> 9180

<211> 348

<212> DNA

<213> Homo sapiens

<400> 9180

gattttttga gatgaagtct cgctctgtca cccaggctgc aggggaatag aangatggac 60
aggaagggga gaggatcggg agtgaagagg tcagccacca caaagcccag gcacganagc 120
aanangcggg gtggggctgg gggtgaaaag cacaaantaa ggcctacagg acgctctgca 180
cgggctgagg aagagggacg tggttcagcc atggctgcag gagactgggt ggatgtccgt 240
gtcaccaagg cctataggga acaatgggga ggggcgggct tgggtgatg cangaagact 300
gtggcttcaa ngctgagggtg acgcggagca ngangacang gggacctg 348

<210> 9181

<211> 532

<212> DNA

<213> Homo sapiens

<400> 9181

cagttgttgt caacttttta ttattacata tagcacatag tgggaatatt tggttgaaag 60
taaattanaa ataaaaaagg gggaaagtag gaanaaaaat cccctcctcc aggtctgaaa 120
atcanacaaa aatccttaaa actttagacc ttgccatgct acaccacatc tgccaataca 180
tgaaactgac ccattagtgc tctgctggat cagcctgccc aggcactgct gcctgctggg 240
gctgctgtca tcctctggcc gctcctccaa aaagggacaa tgggttttac tcagggctac 300

cactgttgct cctgactggg gccaccatgg tgcccaggct tcaggcacag ggccctgcct 360
 ccttccccgc accgccctcc aggtgggtcca cctcgtggct gtcagttcct gttggacctg 420
 ganctgctcc ggcttctctgt tgtgtggtaa gggaacttca ntgtgctatg ctcttaaaaa 480
 aacggccctc anaactactg aaggacccan acacacatgg tgnaccant at 532

<210> 9182

<211> 322

<212> DNA

<213> Homo sapiens

<400> 9182

atttcaagtt ttcttaagaa tcagaataaa tatatttgag acaataaaac ttctcagtgc 60
 ctttttacag gtggcatcct ccttgtaggg cacagaacag ttattacctg atcagcatct 120
 tccaaagttc aggaccactg aaaccataat agaanaatct tgggagctaa tgtcaaagaa 180
 tcattttttg ctatgcttga ttttaagtcca aactttaatg tgattttaat ctattgcata 240
 tccnntgagg aatttaactg tgataatact gaaaagaaat attggatgag aaacaagaca 300
 ggcccnacc cncnaatctc ct 322

<210> 9183

<211> 407

<212> DNA

<213> Homo sapiens

<400> 9183

aaattttacc tatacctttc cacaagacag ttgggaactt tcagttcaat aacacacttt 60
 atgttatgga ttttatattc aagaaaggta tataaatatg tagcaaatat ggaaaactac 120
 atatataaat atgttgcaaa tcttggaac cttttaggtg tgatggctgc tcaggcaaac 180
 catggagcaa gattggaaat aataatggtc tgcatacatc ctcccatagg cagtgaacaa 240
 ggttgccac attgactcta ttatgactga gacagtggca aattttactt ggttccccan 300

aatcagtga aananatttt taaaacatat cntaaaaaa aatatactgt ggggtatttg 360
aatccaaata ttcnatctt aatatgttat tatggtatta aaaanct 407

<210> 9184

<211> 511

<212> DNA

<213> Homo sapiens

<400> 9184

ctttctttct ttnattcctt ttatgtttct tcttaaaagg gaactaatcc cattcatgaa 60
anccccacct tcatgacgta atcacctctc aaaggtctca cctcttaata ccatccatt 120
agggattagg cttcaacata ttaattttgg ggaggacaca aacattcagt ccatagtaac 180
tttgatcttt ctctttcttg atttctgtag ttagaattcc tganagctgc cttgactcct 240
cctggaacaa tgtgggacat aaataaacia atagatggta actaaaaat ctgactgctg 300
ggaggacaca aactggctct ctaatcctaa cttcatacta aatttttgcg tgattctccc 360
cttgatctct gaccctggct ctacactgac ccctaattcc acatggnagt gggacaacct 420
actctcagtt tacatgaata acttattgct ggaattggta tttccagcc ccnggtcna 480
attttttact tttttccng gaatttactn t 511

<210> 9185

<211> 466

<212> DNA

<213> Homo sapiens

<400> 9185

attcctgaaa gaatgaacat tttaatgtgt ggttccatcc tttcctgaca aggtggttgg 60
ctaaaaaaaa aatcaaaat gaaacaaaaa cttagctata tattgataaa agcaagataa 120
caaaaggaga gagttgcaca gttggcaaag gctcagatga ggaaataaac aaataaaaaat 180
gcttttcttc aatgtctggg acccactttg ctttctcaag aaaggccgaa aaccagtcaa 240

| | |
|---|-----|
| ctgcgtgaca ctttgtcttc tccttctatg cctttcgtgt cctattgctg aatggaaaaa | 300 |
| cccgcacagta tcttttccca gtgggccctt ggatttatgc tgcaacttaa ctactaaga | 360 |
| ttgtgtgttt cagtaccacg gtgattcctt actcttgtct tgatgctgta gacctgtatc | 420 |
| gaatcccacg ctgggcacta tgtctactgt nccatgaaaa ngntcc | 466 |

<210> 9186

<211> 448

<212> DNA

<213> Homo sapiens

<400> 9186

| | |
|--|-----|
| ganatggagt ctcactttgt caccangct ggagtgcagt ggtgtgatat cggctcactg | 60 |
| caacctccac ctcccgggtt caagtgattc tcctgcctca gcctccccgg tagcctgccc | 120 |
| ccatgcccag ctaatttttg tatttttagt aaanatggga tttcaccatg ttggccaggc | 180 |
| tgctctcaaa ttccttacct caggtgatct gcctgcccag gcctccccgaa atgctggggt | 240 |
| tacagcgtga gccgctgtgc ccggcccagc cacttcttct tattggagtg tgagcactag | 300 |
| gagcagggac ctttccatgg tgcttgctgt gttataacct gcaccagaa cttagtaagc | 360 |
| gttcaaacia aattttttaa aataaatgga agaacnaatt aanaaacctc ccggtnaatt | 420 |
| cttaaancgt tcccacaaca gggaaatn | 448 |

<210> 9187

<211> 346

<212> DNA

<213> Homo sapiens

<400> 9187

| | |
|---|-----|
| aaagcagctg aaacaggcac ttgtttattt cccagaagg aggcagaatg gggtccttgg | 60 |
| ggagtctctg tcccagcctg gtgccccgga caggcagatc tcacttccag aagagcacat | 120 |
| tccagaaaag tagtcagcaa gggcagaggc ccagggacag cagtgggaag agcaggggcg | 180 |

cttaggtgtg gtgctccagc gcaccctggg ccagtgtgc caggaagaac tgccagccct 240
 tggccagtga cagtgggtgcc tcctgcagct cccgccacag gaatgggctg ccaangagcg 300
 tggctgtggt gcttgtcaac accagcaggg cancacanaa ggtcca 346

<210> 9188

<211> 309

<212> DNA

<213> Homo sapiens

○ <400> 9188

atagcatttg tattttaagg atttagggca aatacatttt tttttctact tgataaaaag 60
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 aattatattg attttttagga tttaacagct gaaaaaaccc tttctgcttc cactggaggc 180
 aaaactgaac aaaatgttag ttaaatanaa agagcagcat ttctaanaaa tctgtggtca 240
 gcattatana ccatctatgc tacaagggat ntenttaaat aggatttggt caattactgg 300
 attccctnc 309

<210> 9189

<211> 257

○ <212> DNA

<213> Homo sapiens

<400> 9189

ggagatggag tctcgctctg tcgcccaggc taaagtgcag tggcgtgatc tcagctcact 60
 gcaacctcca cctcccgggt tcaagcaatt ctctgcctc ngcctcccta gtagctctga 120
 ctataggcac gtaccaccac acccggctaa ttgataaata atttttataa acttaaaaac 180
 ccttctcctt gttaccgcaa atcacaaact ttaaangtcc ancaataaac nctgtccaaa 240
 atttcatgct cttcact 257

<210> 9190

<211> 524

<212> DNA

<213> Homo sapiens

<400> 9190

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gaggccttaa tttttctcta tgttcaaggc agttaattgc tcaaantatg ggtttggagg   60
atctgtacca caaacttaaa agtaccaagc taacaaatca ctcattttga aagtctacta  120
caaattcata ggccatctac ccaaattgat tttctcctat caactctagc tgcagagcaa  180
catggtgatt caaaataggt gcctggatag gaanaggcat accgtgaatc taaggactgt  240
nttgaatant aaggctaaca agantcaggc atctgcaggt gctgatgaac tanaaacagg  300
aagggaccga gttaacattt caggtggcca aggtctctct tggaagctgt naaccaagac  360
tgaaggctna ttactctttt ctgtcctgca aatctgcttt gatatggaac aatacccatg  420
gatgcttaan tactanctac tatatccgct tttttttttt gtccccattt aaattgccta  480
agaactgaaa ttccccgaan aaaaanaaan cccctttttg gttc                    524

```

<210> 9191

<211> 561

<212> DNA

<213> Homo sapiens

<400> 9191

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acttttaaag aagctcaaca ttttattctc attttcaata acttaaatga acagcactta   60
acacattaca caaaattaaa gacttgtgca tatatttgat ttcaacatta atgtcaaaaa  120
tacatagtat gattttacat aggatttgtg ctacattaga aactagana caaacatcac  180
ttgagtatta aggaaaacat taaatattaa ataactgana aaatgtgtna acactaatct  240
aactgggggt ttgtctattg caacatgtcc aatgaagtgg tttcaacagt acaaaaagga  300
ttaggacatg agtttttcca gtctacatgg aatatatgga tttcatttca ggaatccttt  360
cataaaaact ggtccaggat aacagganaa aatcncncct cctgattgtt taatttggtta  420

```

cctccattct atgctaattt ttacttgcca acttgggttc tgagtaatac ttnaatcacc 480
 nccccatca cctctnggtg aaaactgaag gttgtinggg atccctgtta aattgaattc 540
 tatgncccc ctttcacccc c 561

<210> 9192

<211> 408

<212> DNA

<213> Homo sapiens

○

<400> 9192

aaattctcag tctcaattta atgtctaaga aaaaatatac tcaaatccac agcgaatttt 60
 tccaaaaggg aaaacttata gtcaagaaaa acctcacttg tttttgcac aaccaatttt 120
 cctgtttacc tatagctagg tgtatctgtg cacatcactt aattacttag gantanataa 180
 tgggttcatt tagtttcatt ctccatccc taacacttta tactcaagga actgatctct 240
 gccttttgcc gtttaaggag ggttttcta atatggtttc tgatgcaact actacgttgg 300
 atttatttga tcccttcgga attcaacccc cttttaana ntcaatgcag taaaananc 360
 tgagtcttc tctataaaat ctcaaagca ctgaanaatg acatgagc 408

○

<210> 9193

<211> 559

<212> DNA

<213> Homo sapiens

<400> 9193

gtanaaacgg gtctccctat gttgcccgagg ctggtcttaa acgcctgggc tcaagtgate 60
 ctccctgcctt ggccctccaa aatgctggga ttacaggtgt gagcccctgt gcctggccag 120
 tgtttatatt taaacaaaca ctcaaaaat ttaataaaca tgtntaaagc actatactgt 180
 gccaggcatt gttagcaact gggaatatgg gaatgcatga aactagtcc tgcccttgan 240
 tgtctcatcg gttctttccc tgccctttca gtacgggtggg aattgcagct gctgancagg 300

| | |
|---|-----|
| gattctggaa agcattgcgt acctgagccc ccancatggc gggcctaaag cggcgggcaa | 360 |
| nccaagtgtg gccanaaaaa catggtgagc aagaacatgg gctgtacanc ctgcaccgca | 420 |
| tgtttganat cctgggcctc ntctgacaca caaaaatgtt cgcgtgcttc cttccccttg | 480 |
| ttgaaattcc tgnataacac aaacttgaac cctcccaaat gaacttnact cttatttggc | 540 |
| cctgnacccc nnggccct | 559 |

<210> 9194

<211> 559

<212> DNA

<213> Homo sapiens

<400> 9194

| | |
|--|-----|
| cagagatgga gtcttgcaact gttgcctagg ctggagtaca gtagtgcatt cttggctcac | 60 |
| tgcaacctcc acctcccagg ctcaagagat tctccgcct cagcctcccg agcagccggg | 120 |
| actacaggcg cctgccacca cgcccagcca attttttgca tcttcagtan agacagggt | 180 |
| tcaccatgtt ggccaggctg gtctcgaact cctgacctca tgattcaccc acctcagcct | 240 |
| cccanagtgc tgggaccaca ggcgtgagcc accgtgcccg gccaanatga acatttttta | 300 |
| aaaccaattt ttcaggtata acataagatt tctanccaaa ggaaaatttt gttgtattaa | 360 |
| ttccaacatt tgctgtgatt tggattatg tggattttct tttgtgctct aacccaaatc | 420 |
| atgctagatt tagatgccna taaatgccca atttgaattg aaaacatctt ttacctccca | 480 |
| ataattatgc cntaaaattg aatgaacccc ncccataacc aaaatcccct tctttnnatt | 540 |
| tttaattaat ttnaaattt | 559 |

<210> 9195

<211> 227

<212> DNA

<213> Homo sapiens

<400> 9195

aaactgaaag tggggtacat ggtgcagctg gttctgtcat tgctcagcct anttggcgtc 60
 cagcttggcc atttcctgca catagatgcc tatactctcg ctgtcaaaaa gcacgaagta 120
 caccgttttg atggaagang acattgtana cacgaantaa ctggagatgg ccttcagaat 180
 cagctganct gctgtctgct ttggaaaacc gttcctggag aaaanaa 227

<210> 9196

<211> 569

<212> DNA

<213> Homo sapiens

<400> 9196

ccacttaaaa gtacttgggc ttcctttact catttaattg acacagtcna ncaattgctg 60
 tgtatgtgct taggttaaca tcaaatttgc ctgtgtatca cagcatacat tttaatagga 120
 tgagtttatac aggctatctc agccttatac atgttctctc antgtatgct tttcggccac 180
 ataatgaact acaaattttt gctcaaccct tttccacata natctgagtt ttcctnctat 240
 gggttttctg taacataaaa taagacataa ttgatcacgg aaggcacaac cacattcact 300
 gcattcaciaa ggttttctgtc ctgtgcaaat ccactgttat ctctgaggc tgcacatctg 360
 accactggct gtcccacaaa gactacgttc ctgtttgcga agangccgct aatgtttaat 420
 gatgtctgan gggccacaaa aagcacttgt gttatcccc cgttagcaaa atttttctcc 480
 tgcattgacat cactggtgtg ttatganctg tgccnctctg ccaggaagan ttccccctg 540
 ggtgcctctg tttcctccct gtntttttc 569

<210> 9197

<211> 263

<212> DNA

<213> Homo sapiens

<400> 9197

aaacggtaaa tgccagtttt aataacaaaa atggtactaa acgcaaatga acattaaatt 60

| | |
|---|-----|
| aatacagtat aaaaaagaac agcttaaata aacnggtatt cacatatcac aatagcaaag | 120 |
| ttatgacana atgaactgaa aacacnaaca gttttgaaaa ttctcttttc agcctacttc | 180 |
| caaataaaaa tagtcaggct tttncctgt acatagtttg atgctttgtc tataccatat | 240 |
| atantanaaa aataaattct tta | 263 |

<210> 9198

<211> 443

<212> DNA

<213> Homo sapiens

<400> 9198

| | |
|--|-----|
| gagataaatt tttatittaa gacaaactga taaatgggtca agaaaaagtt ttaaaatatt | 60 |
| gacataaaaa agctgttttt cccccactaa attgccatga ctttgtactt ataaagtcta | 120 |
| ctaaattata ttcaaaaagt gtgtataact gtaccatttt cgttaaaata ttgtgtaaaa | 180 |
| aaaagtttgg gggaatatat aacaaataat taactgtaga tccctctggg tgtaaanatt | 240 |
| acaggaggct ttcactttga gcactctcaa atagtgtgaa atttgagatt ttacaataa | 300 |
| gcattatgtg tgcagaaaaa attaaaatac ataaacgtta agaaacatga aaaaatgac | 360 |
| agtcctaac atgcaattaa aactggcngg acctattttc ccataattaa tgnccnaaaa | 420 |
| cggtncagtg aaaagttttc cnc | 443 |

<210> 9199

<211> 367

<212> DNA

<213> Homo sapiens

<400> 9199

| | |
|--|-----|
| ggttatattc agtatittta atttagtagg atagaatata tcagattgca ttattttaat | 60 |
| ttgccaatga aaagtatgac tgggacactg taaaatgtac tatttttaat ggggtgtgcat | 120 |
| gtcaggattt tctttanaaa tacactggtc tgggtctaatt tatttaagca ggagcacttt | 180 |

aaagtatccc accctacccc attccacccc cagtggacag aaaggaaatt gactgacttg 240
 aggggatgca gacatctggg ttattccaac anaccantgg ttaagaagan gggggtggta 300
 ncattatggc ctctgggcagg cccccccacc ctgagcctct gaaagctgac tttatctgta 360
 agangga 367

<210> 9200

<211> 548

<212> DNA

<213> Homo sapiens

<400> 9200

aacagaaagt cagagatact ttatitttac ttctaaatcc aaaggctaag tagagcagag 60
 ttgtaaaaat gaaatccac ttagtctgat tcacacgaat actaacgttt aatcctgttt 120
 tcaaagtcca agattgaaaa ctgtcaatta aacactgagc aagccacatg ttttaagtaat 180
 atttcttaaa aagtcttaaa gaaaaaagta tgatacagga cctaagtttt cagtggcata 240
 tatactatta acacatgttc tgaaatctgg taggtcacat cagtcctgaa ttaactttta 300
 ataataataa taataaaaaa actaactgag ctttatactt tttctatgcc actatagctt 360
 tctttcacct cattttttta atgtcgatct tcactttatg ccgttctcag tattcttcca 420
 aaaatcttcg aacagtagtc ctacaacgca aaatttgggg aaaaatgata attagaccac 480
 atgttaaaag gcaattttta tgaaaaaatg ttnggccatc nctaactgct aattacatgt 540
 ttttnnng 548

<210> 9201

<211> 541

<212> DNA

<213> Homo sapiens

<400> 9201

gagacagagt ctggatctgt caccacaggct ggagtgcagt ggancgatct cggttcactg 60

| | |
|--|-----|
| caagctccac ctcccaggtt cacaccattc tcctgcctca gcctcccag tagctgggac | 120 |
| tacaggtgcc caccaccacg cccagctaatt ttttgttatt tttagtaaaa atgggggttc | 180 |
| acggtgttag ccaggacggt ctcgatctcc tgacctcgtg atccgcccgc cttggcctcc | 240 |
| <hr/> | |
| caaagtgctg ccanaagtat tctttactgg cttgaccttt gtccccagat acgtaaatat | 300 |
| atttatgtaa cgaatctccc tgacagtaga aaatgtgtaa tttccaatct gaataaaact | 360 |
| gagctatata tgaataactg agaagagtat gatattactt tgattatfff aaaagtgaac | 420 |
| gggaaaatat ctaaaaattg gatatcgatg atacttctag accttgatta tgttattcct | 480 |
| gantaatttc ccttcccagg atccanaaaa naaaatnaac ccccggnaac ctggtaattt | 540 |
| a | 541 |

<210> 9202

<211> 439

<212> DNA

<213> Homo sapiens

<400> 9202

| | |
|---|-----|
| ccagttngtg gaagcctcat tttatttaac caatttccta ttaatggaca tataaatfff | 60 |
| taacaatttn ctactattaa aataatactg taatgaatat cacatgcaaa catcatacca | 120 |
| cactcgtcca gttatttctt agggttctta acatggaaaa ngataaatat atatttaaaa | 180 |
| tttaaataac tacagcttaa ccncccaaa ggattaaaca acttacattc tcaccaaggt | 240 |
| agtcctffff ttgccctcac cctcattgac actggatntt gtcaaattta aaaaaaatcc | 300 |
| ttaacaatct gatanatgaa aaaatagttt aagtatacta aggcagtgtt ttccaaggtg | 360 |
| tttttgffff tgtttngaa ttggaatttt gctctgttgc caanctggaa tcantggcnc | 420 |
| gggccccggt cantggcaa | 439 |

<210> 9203

<211> 441

<212> DNA

<213> Homo sapiens

<400> 9203

| | |
|---|-----|
| acaggttgaa attttgattt tatttcaaaa tgataaataa accgaggcat agttctgacc | 60 |
| aggtactatg tctgcagggc ttttgaaatt aaagaaacag tccaggaggg ctccagtcag | 120 |
| accagaatg acaccagcca cacttgtagc tggcananat aacctctttg accttcagca | 180 |
| attttaaaag ttcttcatcc taatttctga gtatcataaa aagtaaaaag tactttcatt | 240 |
| ttatTTTTcc ttgaaaatg tttttagtgg caaacaggac tacttgTTTT ccttacttca | 300 |
| tttttataag catagtantt atatgtcaat ttacttaaaa ttaganaggg aaacccca | 360 |
| naactgaagt ggcactgccc atccactgaa aggccacat aaatagggtc tcatgtttca | 420 |
| tgttatcccc tctaccannt a | 441 |

<210> 9204

<211> 379

<212> DNA

<213> Homo sapiens

<400> 9204

| | |
|--|-----|
| aattgcanaa agcccccttta atgtctgtgg aacanaaaaa catgttggat ggggaaagca | 60 |
| ggggcaggac acacntgten cgtatctatg ggggtgttacc agggttatat ctgtgacagg | 120 |
| atcaactaac ttactggctc tcatttcacc tgataacata anaccctccc cgctgactac | 180 |
| acacagttta gggtatcact ccttatnact cctgctccct gccctgcacc ctaaattctc | 240 |
| tgggactcac cgcagttttc ctgactctga tggaatgtgc tggantctat tacgaaacn | 300 |
| gcttttccaa aagggtgtca acaaggccct aaaaattttc ttctggccaa aggtgggtca | 360 |
| aaccaaattn ctncnggct | 379 |

<210> 9205

<211> 527

<212> DNA

<213> Homo sapiens

<400> 9205

| | |
|---|-----|
| aaanataaac atacttcatt ttgacaagtt caatcanaaa attaatggtt ccaaaatata | 60 |
| taggtaccta atatagtttc aagaaatata aaagcaatat ccanagattc gagtgagaca | 120 |
| cagacaaacc cataatcttt gtcagaaatg gaatttcacc tgtcactcgc tgatttaacc | 180 |
| ttcacttctt cctgaccca cacccanaac caggcaccct ccaaactgg cccatctccc | 240 |
| ctccagcccc tgcctccctg cccggcaaca ccccgggagc tccagnagt ctctggccgc | 300 |
| tccaagcgt ctgagggcac cagcctgtcc cactctggcc atttcaatgc cgctcggaca | 360 |
| nacctggtgg gttcataagc cgggtgcatc cccaccctg cacgtgctct cccgggtcgg | 420 |
| cnccaatctg gtctgggaac cgcctcctcc nctgaacct tccctggttt tccnccggt | 480 |
| gccggaacct aaaaattaaa gttgggggtg gccccntna aggcccn | 527 |

<210> 9206

<211> 219

<212> DNA

<213> Homo sapiens

<400> 9206

| | |
|---|-----|
| gggctanaag tttgggcttt aatggcagct ggggtaaaag gaaacaaaaa cagtaattct | 60 |
| gaaanancac aagggaaca ggcaccagc aancaccctg ggccattcc caggccagct | 120 |
| gaactgaaat gctgattctg tccanggggg ctgctgtatg tgtanactgg gtggcantct | 180 |
| tggggactga ngcctcttgg anaaaaaagg aaaactgtc | 219 |

<210> 9207

<211> 539

<212> DNA

<213> Homo sapiens

<400> 9207

cagagtgagt ttgcattcta aaaattactg cactgggaca atttgaaaag aattatTTTT 60
 aaacattcac aaactTTTT tnccttgaa aaaaataaag catacaaaat ttctcatgag 120
 gcactttaca gaaaaagcat ctttctgacc ttgatcatga agttatgtgc ttcttgtcgt 180
 attctgggaa agttgtctag gaaatgacct attgagggga gaaatacatt tcctttgact 240
 cttttccaca ttctcttggg tgactttcag ttactctttg tctcagtcag ggttctctag 300
 agaaacagaa cctattatat acatatatta atggagagag attgatttat atttatgtcc 360
 cctcnattat atgtatatat tggagatata atatacatat ttatatatat tccnagagag 420
 aaagaaaaag agagattttt ttttaaggaat tggctcnngt tttcctgga acctggcagt 480
 tctaaaaaat ttaggggtgg ttgncgggct aaaaacccgc ccgntttctc tgtttttgn 539

<210> 9208

<211> 487

<212> DNA

<213> Homo sapiens

<400> 9208

accgggatac tttttaatac atctagtcta aaacttacag ggaaggcatc ctagcacctt 60
 cttttattat tgtacagcag tgacagtgac gacagtgatg atggcatctc tctattttta 120
 tggaaacatc tccaggaaat cccaagctgc acagtggaga attacaggaa cagaaaaagt 180
 ggtgtgaagt ctgtcggctt cttccctggg tcaatgagga gctgaactga atcatactan 240
 aggcattgagt gtctgcgcta tttttaaana nctctgggga agtgtggttg tcccaccta 300
 ggctcctaataaatacactca tttctatttg tgggatgggt aacaccatct tccatttggg 360
 ctttcctcca ctaatatatt atccttcaact gaagtcttat ttctacagtt taatcttttn 420
 ancccccaaa tttttttttt ttncnccnaa aaaccattct tggttcaggg ggcaaggctc 480
 gggncccc 487

<210> 9209

<211> 444

<212> DNA

<213> Homo sapiens

<400> 9209

| | |
|--|-----|
| ggtaccagtt ttatttataa ttaaccacat acaaactact tttctacaaa ataatggta | 60 |
| acatctattc ctttaattcac agaaatatca caaaacaaaa atccttccca cgatatatta | 120 |
| ctatttagtc taagctttaa ttcaaagggt gagaatgacg aattcaagaa tttctttcat | 180 |
| acataaattg ctttccttag ttctgcagat gggtaatctg ttgagataa gcactgtcat | 240 |
| gtttcaacct tagagaacaa aaagctatca acaagatagt ggtaaagaaa atgctagcca | 300 |
| aaaaataaca ctattgagaa ataggtgcgt attaagtgc atacttaca catctctgat | 360 |
| gtcaaagac caaaatttag ccttagggca ctaaagcaca tttgcccttt tgaagcacat | 420 |
| actantatgg ccncttttta tttc | 444 |

<210> 9210

<211> 538

<212> DNA

<213> Homo sapiens

<400> 9210

| | |
|--|-----|
| aagtcagant tgcctttatt tttagattct taaatattct agaatgangt aaaacgaacc | 60 |
| tgccagtaca aagtgaatat tctacatggt gcattcttgg ngcttcatgc atgattattt | 120 |
| caatgaacct cttcctgggc actettaana tanatctgag tttttgactc nccagtctan | 180 |
| ggctttggcg aactcaatg acataatatt cttagaaaaa gcagtagcat ttctgacttt | 240 |
| tcatattcag ctccggagggt tattgtctcg ggctcctgtg cagtcgancg ccacggctgc | 300 |
| tcatcggatg atccangatg ggtccttggc aattttcggg ttctcgggtc cgaagatggc | 360 |
| cangccgtgt gtgctcttcc cagtgccgaa gtatctatcn ctacacgggca anaacttgct | 420 |
| tggctgaaaa caaaaaactc tctctttggg ccncttcctc ccctnccaaa aaggcgtnc | 480 |
| aaaaattgtt ccttcccttt ttttaaagga accaaangan ctcttccggt taaaaaaa | 538 |

<210> 9211

<211> 426

<212> DNA

<213> Homo sapiens

<400> 9211

```
ccntttctca catattttga tggtaaaat aatgaaacaa actagtgcctt aaaagacgac   60
caatcttgag gagngtgatg tcngtgtnaa aaactaaatg agagtccaga aaggcccagt  120
cataaaacaa gcctttcttt atttcaatga gatagttttc tccttaggaa ngacaagana  180
tgggtgctag aaacagtttg ctttcaagtt atcaaaacaa ccacgacagt tgagaatgtc  240
tgaaaaagac catttgtttt ttagattgtc aactgctaca caaacagaat tttctggagt  300
tgtgacaggc atcnattaaa aaacaaaccn naaaaaaacn aaaaaaccca aaaaacaaac  360
acctggcctt ttgaagaatc tatcaagttt taaaaatttc agcatacttg cagtgagccn  420
anatcc                                         426
```

<210> 9212

<211> 322

<212> DNA

<213> Homo sapiens

<400> 9212

```
gggagaatcc aaactcactt taatatgaga taagccaagc aaatgaagag aaataatggt   60
tgtaaccagt ccctggtaat acaagcagtg gcaaaccttg ttgatcaatt ccaacatata  120
aacaggaaaa cataaatgtc nggagctaca aacttttagta ttcagaggcg gacctatgta  180
taatggagcc aataagacca aattgacctt tcaggtgttt ccttgctatc tcccaccccc  240
gtccttcatt tacctcaaga cacaatggtt tttgcaaacg attattaaat tgcctantaa  300
gtcctaaaat tattncnttt tt                                         322
```

<210> 9213

<211> 312

<212> DNA

<213> Homo sapiens

<400> 9213

```

aatgcacat gaatgcaaat tcctgtttta tatatttggg tagaaagata gaacatattg   60
aaaataacag ataagtattt acaaattctc accttatttt tcccctttac attcaatggc  120
taagtgtggg gattcatctg taaatgctcc caaaaatggc acaaaattgt gctataatgg  180
aaccaaacia ccacagtgtt tgtttggggt ttgattttt ctccnataaa aggtacttat  240
ttanacagta aaatttttta gtgacaataa aaatttataa cataaagaac ttttgtnttn  300
ccncattggg cc                                                         312
    
```

<210> 9214

<211> 435

<212> DNA

<213> Homo sapiens

<400> 9214

```

gatctattca tttattttac tttctaagga attgatagaa atataaatgt acatatacct   60
aaaaagtggc tatcctacat atgacagccc agaatttact aactccatag gttttctgga  120
tatttcaagc acacattaaa acaattacag agaggacata catttatgat ttatgcaaat  180
taaggcacat caattacaat ctattttttt aagttagtca gtttaaaaat cttcacttac  240
aaaaattcaa aatatgtcca agctcaactt tttagtaaga atgttaattt gttgggggtg  300
ggccatttcc tttttncct taaaggtna acatgaaaac aatgaaggaa atnnggtct  360
ttgtaaaaca cataaatacc tgtgatgttt tgaatcattt ggnccttaaa aatattgctt  420
aacaanttaa anccc                                                         435
    
```

<210> 9215

<211> 562

<212> DNA

<213> Homo sapiens

<400> 9215

| | |
|--|-----|
| gttgtggtta ttgaggtggt attcatatta tcagattgag aatgttaaac tccaagaaaa | 60 |
| gagctggtaa cctattccctc aattcagctg aagaagtcac taatataggg aaaataatct | 120 |
| ttttttgcca ccagctacaa agttagcata tatgggttaa aaaaaaaaaag aaaagaaatt | 180 |
| ccnaggaaga aaaaataact aaaaataact ctaggcaaaa agacacaata atttcaacct | 240 |
| gtcttatatt ggcagcttat tccatggagt tctgagatgg tacacttttc ataacgacta | 300 |
| atatctctct gaananttgg aaaaataaac actgatgact gctgacagan ccaganttaa | 360 |
| actgtgttct gtgggtccgc atcaggcngc aatccagtgc aaccttctgc ccgtaatcag | 420 |
| atgccatcca cagtccanca tattagggcc tcccgcttaa acaaaggact ggaccagggt | 480 |
| ccccaaaaac ntccttggga atatttgttt ttatcccggg ntccttcaat tcctgaaaat | 540 |
| cccccttccc tggnnaaagg an | 562 |

<210> 9216

<211> 463

<212> DNA

<213> Homo sapiens

<400> 9216

| | |
|--|-----|
| catattgggg aganttttat taacttaaat tgacattcnt aattttgtct gtaagtcnt | 60 |
| ggnatatatg cctttatttg aagcaaacct acaggtgttt cttaatatga cagaatcatg | 120 |
| aagacttgca gttaatcagt gtttccnaat gattaaaaca atgttcaaat aattacaaag | 180 |
| ttacttcntc naaatactta gaaaaatatt ctgaggagtgt tttgaaagct ctgtttataa | 240 |
| atagtgattg atacatttat catgtntttg gtgctgaana taaacacttt ttacataaaa | 300 |
| cattgtttta atatactgct ctactaatga ggctagtatt tagatatact gtattttaac | 360 |
| actaaggaat aaagctttat ctctntatct atcttattta taggactctt atcnatgaan | 420 |
| aactttgttt ccacaataa taaactggca aattgcaant tnc | 463 |

<210> 9217

<211> 421

<212> DNA

<213> Homo sapiens

<400> 9217

ggangcaggg tctctccgta gccagcctg gactacagt gcaagatcac ggntcactgc 60
 agtctcgaat tcttanaatc aggtgatcct cctgcctcag cctcccgagc agctgggact 120
 accagggcat accaccacgc ctggctaatt tttgtacttt ttgtaaanac ggggtttcat 180
 catgttgctc aggctgggtct cgaactcctt agctcaagca atctgccgcg cttggccttt 240
 caaagtgctg ggattacagg tgtnaaccac cgtgcctggc tgactacagt tttttaattg 300
 cagttttgtt ccttgaactg accactgtgg gcattccatg ccttcctcca ctgccgcctt 360
 tttccaagc tgaaaanaca aggaagatgt ngcntccaat taaccanaaa naacaccctg 420
 t 421

<210> 9218

<211> 316

<212> DNA

<213> Homo sapiens

<400> 9218

gtattaaaca catgtttatt tacaacgtgg agananaata aggggcagtt aaggccactt 60
 tctcctgtga aacactgcaa aatatgtnc a taagtacaac ctaatatagg caaaggttct 120
 aaaaatcatt tttcttggtt tcacgtaatt atcactcggg gagggganaa cggctgccga 180
 tancaccagg ccatgccagg ccacgccaac aagggcgtgt gcattcactt tttcattgan 240
 ctgccctcaa aactgctgcc ganctgancc ctgcacgggc ccaagtgttc gccncacccc 300
 acancggtct gaacac 316

<210> 9219

<211> 368

<212> DNA

<213> Homo sapiens

<400> 9219

ctggttgac atgtttgtt tctttattga aagacaatac agaatgatg aaacaatacc 60
tcaagggtct tgaacatgga tcaaatgaca gaagtcttta atgcaatggc acagaagctt 120
ctggcatcag cacctgcaag ccctgttcag tcatcattca tgatcgccaa atactccttc 180
tggtgttcaa ccagcttcag gaatacttgg tatttcttat catagtattt ttatcctgt 240
agtctcggga acacaacttt cccgactttg ctcatttttg ccattgcttc ctgtacagaa 300
ncgaaatccc ctgaggcaca ngcacccana acagcancac ccacaanaac ggactccccc 360
tcttgca 368

<210> 9220

<211> 541

<212> DNA

<213> Homo sapiens

<400> 9220

gtttttatat tttttttttt nactccgtgt gcagtgtttt aatttatcca tgtacatagg 60
caattatcat aatttgaagg acacttttta cttattagac tataagaaaa actgtacaga 120
aagtttatac tataaaatta catccctaag tgattagggt cctcagtaac acanaaataa 180
aaaattgaaa agggtcattg ctcggaatc cacataacta cagantaaan cgcaagctat 240
tgttcgtgat cagaaanana cttcataaaa acatcttcac atattcccta ncattatgcc 300
ctactagtaa aaggaaggcc tatgacaatg ccattgttta ttttgtgtna cgcagccctt 360
ctatttcctt caaaantttt ttttctgc tataagataa anaaaagggn tgtntcccta 420
aaatatatac ctaatgaaaa attatctcca canaaactcc cacgttttcc attttccctg 480
gtctcccctg aaattcncc tggaacttcc cncaccaatt ttccaacct ttenttgnnt 540
g 541

<210> 9221

<211> 449

<212> DNA

<213> Homo sapiens

<400> 9221

cttttntttt tttttnttg gagacagggt cactctctgt tgcccaggtt agagtgcagt 60
ggcgcgatca cagctcactg tatecttgaa ctcttgggt caagcaattc ttctgcctca 120
gcttcacaag catgaancac catgcctggc taatitttaa aatttttct agaaacagcg 180
tttactatg ttgcacangc tagccttgaa ctcttgggt caagtgatcc ttcagccttg 240
gcctcctaaa gcactgggac tacaggcatg ancactatgc ctgcccccta ctgccccctt 300
tttaaagtac ctgggaaaaa caaagtttaa atattctatt ttgtgcccc taattnacat 360
acaatttaag acactttcan aattttacct tattgaaaa taattnggtt gaaaacttta 420
ctttcgaatc cctttgctgt tttgnngcc 449

<210> 9222

<211> 375

<212> DNA

<213> Homo sapiens

<400> 9222

gaaatacaaa tattcttttg tttacttate aaagtaaaaa ataacaaaaa ttttatcagt 60
taaataaaaa agtgacattc tttatcaagc ctctttaaac actgaaacgc acgcattttt 120
atgctcatgt tcttttagcag tatttctccc cttttgcccc tcattcccct aaattgtttc 180
aatgagttca tctgtagaat gaanattgtt acctttctta atgctactta ctttttatta 240
tctcaatate aagaccaatc tagacttttt tgtctcttac atgtgaaatg gatgtnaaaa 300
atggaaaatt cncancact tttaagata acataaaaga agcctaagcc aagcctttcc 360
aggnggggaa ccnc 375

<210> 9223

<211> 387

<212> DNA

<213> Homo sapiens

<400> 9223

aaattcacta cacaactct gtgatgaggt aagaaaagcg acganggnet tcttgctttt 60
 tttcttaaac cattaaagta aaaccgtagt tttctacaga gtacaacaca agttcacaca 120
 aaaaagacat tttcttttgc aaatcaaaac aggaaagaaa ggaaaagctc aaacaaggtg 180
 aaggaaaagc atttctacag ctgaatcacg actgagttga tcgaagccca ttgttgctgc 240
 acaacanact gtgcgtttgg tcacagcggc aatttttttt tctcttcaca ttgtgaaatc 300
 actttacatt gttttctagt anaaaaggca aaaaattgtn caaaaccccn agtgttaaat 360
 acgtttgtnc caataaaaca ctccenc 387

<210> 9224

<211> 344

<212> DNA

<213> Homo sapiens

<400> 9224

ctctgcaaaa gacactttta aaacatgata tcttgaaaaa ataatcgca acaattttca 60
 acttcatgca aatcgagggc agaggagtgt gaataatgat aaaagggaga gctgaaaaaa 120
 taaacatgat tctatitggg cggaatcagt tcattctcaa aatcttgaac gccatgcccc 180
 ggctgccaac ttcacatctc tcgtttccat tcttccctca ctgtcctcct ccgcggtctc 240
 tgggaagggc acaaggtctt tgggtctcang atgttgcagg gtacancatg gcggacaanc 300
 tcacaccact gaaatcatgg gcaaanaagg ncgggccctc cgga 344

<210> 9225

<211> 555

<212> DNA

<213> Homo sapiens

<400> 9225

agaatctctg tacgtcattt tattttattt tatttatitaa ttttgagaca cagtcttgct 60
 ttgtcaccca ggctggagtg cagtgcagtg gcatgatctc ggntcactgc aacctccacc 120
 tccagggttc aagtgattct cctgcctcag cctcctgagt agctgggact acagatgccc 180
 gccactaagc ctggctaatt tttgtatttt tagtaaanac ggggtttcac catgttgacc 240
 aggctgttct agatcttctg acctcatgat ccgctcgcct tggcctccca aagtgctggg 300
 attacagtg tgagccactg caccagcct aaaagtcatt ttaatttgta agatatgttt 360
 actgttttag ananacagaa gctaactttt cattttcaag gactgctgga acaatcntcc 420
 atganttctt gaagttgaat aacaggaaac tgtcttgttt tccaaccatt tngctactgt 480
 tanaaactgc ctggtcncaa aacccccctc aataaactgc agtncatttg ggcaaccctn 540
 ggttgaaaat ttcac 555

<210> 9226

<211> 329

<212> DNA

<213> Homo sapiens

<400> 9226

agattagaat aaaaatttat ttttgtaaag aatttatattt tgtatttgca aaagctgaaa 60
 atgctcataa aaattaccag cccagancct ggatttcac cggatccacc acgtgagaca 120
 aaagagtctg tcacttcttc ttgccaggtt tgagggcctt ttctagacct tggatgtgtt 180
 ttcgaggag ctgatactct tcaagcaata gccagccgag gtggtggacc tggtttcct 240
 ggatctgcac ctgaangctg tccttgcccc cnnggcagg attgacngtg gtgctancct 300
 ggcatccctg ctgaaagatg gcaccctga 329

<210> 9227

<211> 431

<212> DNA

<213> Homo sapiens

<400> 9227

cttattaaaa aatatattta ttaattttta cacctgctgc atagcacaag aatattaaca 60
 ctataactcc ctgaaaggta caataaatgt tccacattta aataacagga ataagggtca 120
 acattttcac ccagtggggt cagcttttagc atctcatgaa agtgcttttt agacctagat 180
 atcttaagag tttttttgaa agggatactt ccaagtcaga aaacaagaag atcaaaacaa 240
 taggtttttc cagaataaca ggaattttac atgatgaaat gtctatttct gtcggtacaa 300
 atcaacgata aaaacaaaat ctacatccaa cctactccaa aataactcnca ctgggactga 360
 atgaagtcta cagtgtcnat gttgtcttga ganaagcccc natatcncc ctggctacat 420
 acatgttttc c 431

<210> 9228

<211> 437

<212> DNA

<213> Homo sapiens

<400> 9228

cntgtttaac tttttaattc nttttcnttt taaattgggc ntgctaatac acacagtaat 60
 atgggtttac agatttccta naccaatect caatttgggc tcagacttga atatacgtca 120
 tccaagagaa ctttttcgtt ccttcttaag gtgttttaaaa aataaatggc tataaagtat 180
 ggggagaaaa catttaagaa taaggtcaga gcacacattc agatacactt tggactcaga 240
 tgttctctta gagaactgta ganataaaat gctaattata gtacatgtna acatctgttc 300
 naattgataa agagtgaaca taaaataata ggatgatatt attgttacag tcgtctccag 360
 acaggaactg gtcttgctct tgcagtcnch aagctaaatt cnggcgatga tgatctctct 420
 ctgctggana aaganaa 437

<210> 9229

<211> 628

<212> DNA

<213> Homo sapiens

<400> 9229

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catgtctatt tgattgcttt tttcctgtaa agacagtcac taatgctctt caccacaaatgt   60
tttcattttct tctgacacat gccaaagatcg cacttcccca tccttttgaa gttacttgca  120
gccatgataa ttgccctggc ccaatgcaat gtgaacaggc aaaagacata ttttacttct  180
gggcctaagc ttcaanaacc agtgcataat ttgttgtctt ctctctctct aatgcanata  240
acagaagtcc catgagcctg ggtcccacaa anagacatgg agtgtagcat ccagcaatgt  300
cgttataaac ttgtagtggg aattaacaat acacatttgt tgttataaac taagatttgg  360
ttataaacca ctaancataa cctagccact gctgactgat taattcacia agtggctata  420
tcactttgtg tttttaagtg gcaataattt aactcanttc tctattagat acctcaattc  480
ccaatatttt tttttctgan aaatgcntgt ttattttatc ccaaaatatt aaattttaaa  540
aattttnttt cccaaaattt ccgttgaaaa ggtgggtttt ggtaaatngg gaattctccc  600
tggggattct gaaaatttgg ggcccccc                                     628

```

<210> 9230

<211> 403

<212> DNA

<213> Homo sapiens

<400> 9230

```

ccatttgtac attattttat ttttagagta ttttcacata cttgcttttt tgttgttgtt   60
gttaacttcc cacagtatca cacggttgct ttcatttgag cccccacat ccctgtgggt  120
gaanattggc agacttagct tcatttgtca tattgtctga ggcttaaaaa gactgaatgg  180
cttggccaan atnacaangc agtaaaaagc ggggacttga acctggtggt cctgctctcg  240

```


gttcatttgt atttctcttc atgctcatcc ctgaacacca cggggaatgg caggagacct 300
ctcccacaan gacacctaan aaagatttgg ggcctctgtc tntaacaat aaaagctgac 360
ctcngacaaa aaaatcttca ntctgttggc ctgttgggct tcc 403

<210> 9231

<211> 362

<212> DNA

<213> Homo sapiens

<400> 9231

cactgctaaa atattttatt ttaaaatgta ccacagtga tggatgtatc catactgggt 60
cttataaatg tacacataca catccatata ttgacaaag tatatatatg aactgggttaa 120
agacctatcc naaanaggaa atatttctag aaagttcatg tgtttatact tcattanaca 180
attaaaactt atttgaactg atgaagtttt agttgcttag caatgactaa taataccaat 240
gcctgtcaat aatgacaact aaattgagaa ctataaat t cactgctgtg ccttgggctn 300
aaattttcaa tgatggaatc ctaaataagt nacagttatt ccnntaatgg ggtttntttt 360
cc 362

<210> 9232

<211> 390

<212> DNA

<213> Homo sapiens

<400> 9232

aaaggatat attttaaacg tgtgtcgtct acctaagtaa ganaatagtc tttgaactan 60
gtactatgtt tgctgttttg gtgatgggtt cactanaagc ctaaacccca gcattactca 120
atatatccat ctatcaaacc tacgtgtgta cccccctaga tctataataa aagtaaatta 180
aaacaaatca aataccagtc aactatttgg ttgactttgg ttgtactgat taactggaaa 240
tgtgcctctg aagccacaca gccagagcaa ctggcttttt gtcattccca atgaaaagcc 300

ttgaaanatg gttctattan ataacgggcc acactgaagc taactgtgca tctagatcac 360
atcaaagcag tanaagtgan atttagcnca 390

<210> 9233

<211> 447

<212> DNA

<213> Homo sapiens

<400> 9233

acgttgcttc aaaatattta atacgtgtta gacacgtaaa agttacattt ttatacaaaa 60
atcaatacaa cgaangagaa aatactgtac aaaaacctta tcagctcccc caacctttat 120
acaacaaaga ctgggagtca ccatactac aaaaccataa ggtctttcca cttcgggctt 180
ctgtctgtaa actctcatta aacacttttt aaaagcactg tgtagtactt ctgacctaga 240
gcttttaaaa atatatcttt tctctataaa ctccattatt tccaagcttg aactcttctg 300
tgaagtctgt caagcttttt ctcccctgcg gggaancaaa ggacgttaat acgccccctt 360
cctagantaa tcacaggata taaacgtttc ctcnttggga aaaaaaaggt ggggagggac 420
aaaaggaatc canttntttg cnccttgg 447

<210> 9234

<211> 403

<212> DNA

<213> Homo sapiens

<400> 9234

cagcttttaa ctgtttatta taaagacata tttacacaga acaatcttta caaacattga 60
acacagggga agggaacaat ttcttaatga acagggcctt aatatctttg tataaattag 120
tataanaatc ataaacaacc actttaata aggagcccc cctagcccac ccactaccct 180
cttctgttcc ctatctccca gctttcttag ccattcccc ctttctcccc ttccccacgg 240
ggctgggctt ggctgcaggt catggcaggc cgatgaggca ggagacacan aaaggaaggg 300

ggaaanaang cccaatccct gatggggcg tcagtggcaa aaaaaacttt ctgggcaccg 360
accantcccc actccaanca tgagccttta agcagcanca gca 403

<210> 9235

<211> 546

<212> DNA

<213> Homo sapiens

<400> 9235

ggctatgtaa ggnatitttc tttattattt ttcagtttat cttagtaatg ccagaaaaat 60
aacagccgtt attttcactt taaatgcaaa ccaaatactg ctgcacacag agtacaaga 120
ttacctatga acatgggttag gtacaaaggc catattanat gtatagacca cactttgttc 180
ttacatcaaa gaccgaccga cagagcaatt ttttgacaat tatttttagca aataaccgtg 240
ctactaaaca aaggcaaata cacatatata cacaacacg tctcaactaa aattatacat 300
gtcactttga caaacaaatt ctctgggtgtt ttaccanat atttgcacc caaagttccc 360
tgcccaaate cggaccccaa atgctgactt gatctgaana aaaaaattag anatgttctt 420
aattaaaggc acatttggca gctactgaaa gtggcatgca tctggcacag gtgcctcccc 480
taagccnacc acatgttcct tccancanct gttatgcanc tgtttccttg aatggtatcc 540
atgtna 546

<210> 9236

<211> 521

<212> DNA

<213> Homo sapiens

<400> 9236

cttgagggtg gaccatanat tgtctattca tgctctttca gacttttgat ataggcattt 60
aatgccataa actttcctca cagcactgct tttactgtat ctcggaagtt ttgatagggt 120
tcttgttttg ttttgttttg ttttgttttt tactattatc attcagtcaa tttttttcat 180

ttccttcttg attttattct tgaccaaca atcattcaga agcaagttat ttaatttccg 240
 tgtatttgcg tggttttgag gggtattctc agtggtgatt tcctatgtta ttccagtgg 300
 ctgagagagt acttgatata atttcgattt ttaaaaattt gttgagactt cttttgtggc 360

ctatcatgta tctgtcttgg cgaaatgttc catgtgctga tnaataaaag gtatattctg 420
 cattgttagg taaaagntcc tgtaaataac cggttaantcc atttattgtn ggggtatatt 480
 tnaattccat ggtttccttt gctgnacttt ccgggtgggta a 521

<210> 9237

<211> 451

<212> DNA

<213> Homo sapiens

<400> 9237

cccacccaca taaactgtat ttgtcactat tatacacaat atggtgccat catgcatatt 60
 ttgtacattt gatcaaccaa tatttatata aaactttcat aaacactttc aaacagtttt 120
 accccacagg gtgggcaaag gtgcttgctca atataataaa actgaacaac agtggtanaa 180
 aaaggtacac ttgtacttat cttcaagttt aaaatgtaaa ttttttctgt tcaatggcca 240
 ctacctcata ttatTTTTtag gatctgggat cggacttagc aacacattat gactttcaan 300
 aagttgagct cactgttttg tggcgttctt tgcanaaaca ccatgaactt ccggggtgcc 360
 ccatgttgct gacaantgtc aaaaacaact ggtgtccacc tgacttnagg ctggacttnt 420
 gttataggca ctttgttggc catancnccc c 451

<210> 9238

<211> 392

<212> DNA

<213> Homo sapiens

<400> 9238

agaatgagtt gtanagtttt atttttgtga atatagtgag tgacagatgg caattacatg 60

aggatatttg aacgaaggta cataagccta aacaatttca cctaggtaaa atattgatgt 120
cataaccaa ctatatggcc ccgtttcata aaggttiacta tattctatan anagtgaana 180
ggtggccttt ctatcccagc ttaccctatt cttgttattg ttcaaattct cctgaagctt 240

gcataactag ctgccatcag gtaaattgcta ttggctagca gaagactgca gttctgttaa 300
tattanaacc ancaggggga acttgggaac ttgacattaa aaatctanaa aacanaattt 360
taggatgggt ctctgttanaa acctgaattg tt 392

<210> 9239

<211> 211

<212> DNA

<213> Homo sapiens

<400> 9239

anagtgcat aaataaatat aaattttatt aaanacactc ncatagcatt atcnggaatg 60
atataataat aaacagcttt caaataacct gcattcataa cattacaata cttacagtat 120
ttataacat ccncanctt tataaaccaa acatctcatg aaaatgaaat gaagctagtt 180
tttaaaaaag catanaaaaa tgcncacana a 211

<210> 9240

<211> 367

<212> DNA

<213> Homo sapiens

<400> 9240

gagatagagt cncnctctgt tgcccaggct ggagtgcant ggcgcaatct tggctcactt 60
ctacctctgc ctctgagcc ccaatacaag caattctctt tcctcagcct cccaantaac 120
tgggatacag gcatgcacca ccatgcccان ataatttttg tatttntagt aganacagag 180
tttctccatg tnggccaggc tggctctgaa ctccggacct tgtgatccaa ccgcctcggc 240
ctcccaaagt gctgggggta cagggtgtgag ccaccagcc cagccaggat gcaatcttat 300

tggtgtgtca cttttacccc angaagcnaa aaagtggat gagtnagctg gtacgatnaa 360
ctgtnat 367

<210> 9241

<211> 492

<212> DNA

<213> Homo sapiens

<400> 9241

gtagagatca ggtctatgtt gccaggctg gtctcgaact cctgggctca ggcgatcctc 60
tcacctcagc ctcccaaagc gctgggattc caggcgtgag acaccatgcc tggcctgtgt 120
ttttaaaccc atgtcacagg acggtattca gcctgaacag tttcctgaa cagaagacag 180
ggaggaaagc cagccacaca gcaatacacg cagcaggatg cagcttcggt cacattcaaa 240
aagtgacctc atgctcatgg ctgcgcacat gcagattcag aaaaaacaaa cccacgtgcc 300
aagctcctgg ccatggctgc tcagggtatt cngggcgcgg gacttgggga aggggacaaa 360
ggccccang gaaacaattt aaccaagggc ttaaaatgct ggccatcttc aacactgaca 420
ctgtcancaa tggctgcttc tgggtnaggg gaactggata ctgtcatttn tctatttgna 480
cagttnttaa aa 492

<210> 9242

<211> 509

<212> DNA

<213> Homo sapiens

<400> 9242

aagaatttta agtacatttt attaacaatg tatccctttg ataagattat gcttcaggag 60
gcttttaatg cccttgacat aaactataca cattatacaa aaacaagaaa atcacaacaa 120
aaaaaatcaa ggtgagcaaa accatttggg gacaaatctt atttaaatta tacacaactc 180
aatgaaatat tcttacagaa aaaatataaa tactttttct ttctatgtta cagttataca 240

atataaatca gatttcaatg tctgttcagt gacctacaaa caccagaacc tccaaatatg 300
tagcagcgta ttactaaata aaaaagaaga aactcatgtg gttagagagc attaagtctg 360
agattttttt cacaattcct taccactttt caaaactagt ttacaccatt tgtttttacaa 420

tgcagcttta nggttctgac aggtattttg ttcaattanc tataaaantt ttttcntcc 480
ccccccctgg ccccaaaaat tggctttgt 509

<210> 9243

<211> 499

<212> DNA

<213> Homo sapiens

<400> 9243

ctaaacttct cttctcgctt catttcattc ttttgatctt caatcactga tatectttct 60
tccagttgat tgaattggct actgaagctt gtgcattcat cacgtagttc tcatgccctg 120
ggttttcagc tccatgaggt catttaagga cttctctaca ctggttattt tagttagcca 180
ttcatctaata cttttttcaa ggttttttagc ttctttgcga tgggttcaga cttcctcctt 240
tagctcggan aantttgatt gtctgaagcc tacttctctc aactcgtcaa agtcattctc 300
tgtccagctt tgttctgttg ctggtaagga nctgcgttcc tttggaaagg aanaagcgct 360
ctgattttta naattttcag cttttctgct ctgttttttc cccatctttg tnaatttaac 420
tacctttggg tcttgaagan ggtgatttca aatgggggtt tggggttgat ttccccggtt 480
tgttatttcc ctctaacta 499

<210> 9244

<211> 570

<212> DNA

<213> Homo sapiens

<400> 9244

atcttctcac atctttatta tgtattttat aatcctagct caaaaatcac tcttgtactt 60

| | |
|---|-----|
| ttagatcaca aatttgcctt taagtaacac ataatacact taaggcagat ttgccttaca | 120 |
| ggtggcctca gcttctaaac accactacac tgctttatat aaaaaacaaa aatcacatag | 180 |
| aagagaatct agtgacatct ttcttggtat tttaaactta aaaactgcat aataaattga | 240 |
| <hr/> | |
| gttcccataa aatttcgccc ttgagatagg aaacaaacac tactactatt ttatagttgc | 300 |
| ctttatctga cttgattgat gcagttataa tagtattaat aacataatct ttaaatttgt | 360 |
| gagggaaaac caatacttta tattcncctc tcataaaagg ttcaacagca agcataatga | 420 |
| aganccntta taaaatccta ttgctaagta ttactttaac tcntaattct gcttatataa | 480 |
| gtgtttgcnt atcccagtta acaaattcta tttaattatc ccagaacttn tgccaaantt | 540 |
| tccttgaatg gctttaatac ncggaagnta | 570 |

<210> 9245

<211> 501

<212> DNA

<213> Homo sapiens

<400> 9245

| | |
|--|-----|
| attttaaggg acgtgtttta ttcatagct ttctgcaagc aaaattgctc tgatacaaaa | 60 |
| tgagttcaat gatacaggtg ctactgtcca ctcaagcaaa anaaaacctc ncatgtntat | 120 |
| gaacgcactt tatacttata ttcttacagt ataataggctc taatatccag gatgcctctg | 180 |
| gcctcattga aagcaatggc anaaaaatgc tgcaaggtagc ttgaatatca tantactggc | 240 |
| aagtgcctga agtaacttcc tgtgagttct ctgtcanana ctgcaaaaac tgcgtgtggg | 300 |
| tgtgtttgtc ttttagtctt ccaccttng gtttacattt aaatcatctc anaaaatata | 360 |
| ccctgcatgt atcattcagc ttctcagaat ttccataaaa acaggaaaat gtcatagaagt | 420 |
| ttccctaact ccgggantga ngtagtgctg tggctgtccc aaaagatttt anttacctgt | 480 |
| tngtncagta ctgaatttat t | 501 |

<210> 9246

<211> 384

<212> DNA

<213> Homo sapiens

<400> 9246

| | |
|--|-----|
| aaaacctccc gtttaatatc agatgccaca catacnaaat cgatgtgcac gtcggganaa | 60 |
| acacagcaca gccaggantn ctggcgccaca gtgaatacgc ttccgtcctt tcaaaagcct | 120 |
| ttcccgaacg gnatcttgtn aaaaatgcc aaaaataaat gaaaaaaact gccaggaaaa | 180 |
| nanaactggc tttcagtgtt aacgaaatgg attctccana agcatggaaa tcaggactgc | 240 |
| cacncagggg aacgcacana caggtccaaa cgcaaactg cccctganc ccccatctt | 300 |
| caaacacgct catgcacact ggaggcgctt ccaccgccag gcccgcgtga anacacagcc | 360 |
| gggtngnccc ccnccaacg ggcc | 384 |

<210> 9247

<211> 569

<212> DNA

<213> Homo sapiens

<400> 9247

| | |
|---|-----|
| ggcttatcaa atttcaaata tattttactg tgctgaacaa tatattctaa tgctgtctaa | 60 |
| aacacagcta aattattttt ctttatttgt ttatacacat tcggtaattt ctgaaaagca | 120 |
| agatttaaaa atattttatta acaaaactac ccaattacaa tgactgttct ccatacacg | 180 |
| caactatttt ctgtagctgt atcttcttac ctcatccac tttaactctg tataccgtat | 240 |
| tgatttgtga tgagatgatt tattatgaga actcttaggg agttctcatc ttccatttct | 300 |
| catcaattca aacagcaaca cctttcaca gataacatta attcccttgg cagggcagaa | 360 |
| gcttaagttt gttaaaagca ctactgaaa aacatttita aatttatagg tcatataaaa | 420 |
| taatttacaa agagacagat gacttcnaat attatttggc agtcacctta ctatgtngaa | 480 |
| acataaatga aacaatctgt ccacnaana ccateccctt tggccttita aaggaatttn | 540 |
| ttttgggaat tnttttctgc aggccttcc | 569 |

<210> 9248

<211> 525

<212> DNA

<213> Homo sapiens

<400> 9248

caggggaagg tataattttt attgacgtgt cctcagcaca aggtctgttt tcaattttct 60
 gagaaatcaa cttgagtaac gtataaaaat taaaacaaca ctgaactttc gttccagttg 120
 ctgtcaccac caagcctgct ggctggcacc tggaggagct gggaacaaaa ggtaccatgg 180
 caggtgaaag gcccaagtga ccaacactac atgggctgat catttcagct aaatgccttc 240
 tgtttactga aaaacatctt ggatagccca gttctgcggt caagtgtgct gtatctgcct 300
 ccctgggcca cctgctgggt acttgtgcag taggaactgt gttttacacg tctctgaatc 360
 ttctcagtg cttattttctc agtggttgct gaactaatac ttgctaaaca aatgaattct 420
 tctttattca gagtccatac aaatacaggt accttcataa nccaatgtt actgganaca 480
 taaaanttga atcaacanaa aacaagttct ccctatatcc tcnta 525

<210> 9249

<211> 572

<212> DNA

<213> Homo sapiens

<400> 9249

aaattatcaa cttttattta ttgagcacct attgtgtgcc agggcccaca ccaggtcttt 60
 catatgtgta accaataatc acaacaaaga gtcaaataa ttatgtgtat gtagaanaag 120
 anaaaactga ggcttacagg gactaaataa tttatccgac atcaatgctg gtaaaatatt 180
 caaatgcaat attcaaacc cagaccagct gaccctccca cactgccata ctttcccat 240
 gttgccaaaa cactgctttc cagagcacc agattctgaa ggaggcccag gagaaactca 300
 caataccctt ggctggaaac agggaaacac tcacgcacac acaaaaggaa aaatgttcca 360
 aaatatgtct ctcgtgaaat tccacttttg gtacagaagc acatattgaa agaanatttc 420
 tctcccatc atgttgggct ttgcatctcc cgttgctgct actgctgcct tcttggccaa 480

ttaactgncc atgttccatg ttctncatg cccatccntc caggattggt tccngatttc 540
ctttttgaaa aaattntccc cccggctgca cc 572

<210> 9250

<211> 567

<212> DNA

<213> Homo sapiens

<400> 9250

gtagaataaa atactttaaa tggtttaata ttgtaaacca gccccctcc cacacacact 60
ttttaataat gggttaaact tttcccttc tgtaaggnc tagctggttt tctgactagt 120
tgcctaaaca tgtttctcat ataagcgaaa ctgaacatgc tgctgctatt aatcatcata 180
aactgtaaaa tgtggttttc tggaaaactg gtactttggg agttttataa tccttttgga 240
gtctaagcca gcacatctct gtgagttcat tctaaaaaat gtgctttgtc tttatcttta 300
gtaatccaag accactctaa aattaaggcc atcagggaaa taacaaactg atgangcatt 360
ttcttatant gcttttttca cctactgctt gaatgaacag atctttctga accattttca 420
tcaggccttt catcatctga atcaaatcca aaaaatttct gacattcttt tgtgcaaaaa 480
aaacccatt tgcttctcat tacataaggt ggtcgggctt ttgcccttct aatncttncc 540
agnattttta nacctttttc ttgaata 567

<210> 9251

<211> 574

<212> DNA

<213> Homo sapiens

<400> 9251

gcttttcaac aaagattcaa catcttttat ttacatgttt atgacataca ttaatgggtca 60
tacacaattt ttaaactaaa tctagtaaca acagaggatg gaacataaaa gacacaattc 120
caaattttag tcagggtgaa atgtttttcc actaactgaa agataagata aatgagcagc 180

| | |
|---|-----|
| cattataaag ttatgggctg tatgtcaatt cacgtcttaa aattgaaagt cagccacaca | 240 |
| gctgttaaaa caatgggaaa ttgcaaag caaatatata atgcatgcac agctatcaca | 300 |
| tttattcttt atccttaaag ccatttttaa agtaaactgg gagaggcaac ttagtaatat | 360 |
| <hr/> | |
| gtacatcaag gcacattctt ttcttgtgct ttaggaatga ttacatgtg atctgcttat | 420 |
| atcttaattt tatactttat aacagcttct aatacctaaa agcttaattt ttaacaatta | 480 |
| ttctttgagt ggtagtttcc cacaaaanaa atgtggcatc tctcatgggt atticcaagt | 540 |
| cagaaaattg gatacctgaa gaagtnggat ttaa | 574 |

<210> 9252

<211> 495

<212> DNA

<213> Homo sapiens

<400> 9252

| | |
|---|-----|
| gacagacata cttttattct tttatTTTTg agatggagtt tcactgtcac ccaggctgga | 60 |
| gtgcaatgga ncgatcttgg ctactgcaa tcctgcttgg gtgacagagc gagactttgt | 120 |
| ctcaaaaaaa attcttttaa ttaaaaaaaa aaaaaagctt tactacttcc tgtggagtgc | 180 |
| ataaaaagtt ctccctttg ttttagtcat ccanantaaa gtcatagggc tcaaagtctt | 240 |
| tccggaagcg gcganccagg gtctctcgt ctcccttgct gatctgacac tgcctccagt | 300 |
| cagacttate aggaacatta agggatggct tccctggcca ngaactccct tccaaactgc | 360 |
| aaangaaaat tctttttaat tctgtggaaa ancttttctc ctgtgtcaag ttcaacataa | 420 |
| aaatatgctg ctctggctg tgcaatctgc ttganginna aatgctctgg gaattccaac | 480 |
| anctctatct gcngc | 495 |

<210> 9253

<211> 576

<212> DNA

<213> Homo sapiens

<400> 9253

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ctgaagtgg | gaattttaat | attgtataaa | aaatccaact | tgttccacaa | gtacatatgt | 60 |
| cctatgattt | tatgcataca | tccatataca | tatatcaagg | taaagtccag | tacaaaaaaa | 120 |
| cagcatttcc | tatggccagt | gttctacaga | agtaagactg | tgcaaacttt | atcgtatagt | 180 |
| caaatganat | tgcacactaa | ggcaggatga | ggcanaagca | agttgtgtcc | acagtatatt | 240 |
| acaaaatacc | ttgcatagct | tattcattct | cacctggtaa | attcatctta | naattctgaa | 300 |
| ggattttttt | cctaaaataa | atttatacaa | gtagtggtta | tacttcttgt | ctttgttcct | 360 |
| gtggcaaacc | angtttctca | gtactgattg | ttttacttcn | caacattatt | gatttaacaa | 420 |
| taacctganc | tttggggctc | tgactgcgt | tcattgtaat | ccgtgataca | atgactacaa | 480 |
| atgttttncg | aantctaata | tccacctgtt | tctcaggcga | atnccaggg | gtccaatccn | 540 |
| ctgtgtcatt | ctcnnaaacg | ccgtgttaaa | ttccct | | | 576 |

<210> 9254

<211> 446

<212> DNA

<213> Homo sapiens

<400> 9254

| | | | | | | |
|------------|------------|------------|------------|-------------|-------------|-----|
| caaagagaca | ataatttatt | tttaaaaacc | attaaagact | tgaattaatg | gagagataca | 60 |
| gaattatcat | ggatagaaag | ataacattct | ttccccaaat | taatctatan | attcaatgta | 120 |
| attctaataa | aaaaccitaa | cccgattgtt | taattctaca | taatcattta | atcctaaagt | 180 |
| tcacagaaag | agcaaggggt | caagaacagt | caaaaccatt | ttgaaataca | ganaaggggtg | 240 |
| ggcanaggan | acttccttac | cggatgtcaa | gaatttagga | ttaaataacag | agagggcatt | 300 |
| ataatcagca | gggaaacgtt | ggaccattcc | ataaactgct | aagacaactg | attatccata | 360 |
| tgggaaaata | atggacttta | tgccataaac | aaaattnntt | tcaaagttaa | ttaacaaaat | 420 |
| anaaaggcna | aatcctnaaa | ttttta | | | | 446 |

<210> 9255

<211> 305

<212> DNA

<213> Homo sapiens

<400> 9255

```

aaaataaaaa aggtttttgt gctttattta ttcntgggcc ttttgagttg aaagggaaaa 60
aagttttaat attttcaggt tggatcnca aggactgaat aatacactta tgaaggnttt 120
caaaaaaatg cttgatttgt ttctaaagga aaggctgctg atggtaattt gtgtgctgct 180
gtgcaactgg atganctgga actgtcaccg gaaagcctgc cagttgaggc aaattggaan 240
tnttgttctg ataaaatnac atatccacag acatcccntt ttgctgtgtg taagcagttg 300
tncca 305

```

<210> 9256

<211> 597

<212> DNA

<213> Homo sapiens

<400> 9256

```

gataaactct agtattttatt aaattataaa ttttgnatc aaaaagaaaa atgcagacca 60
aaaaaacctc aaactataag actagacagc aaagcctatg ggaacaccat gaaatgtgtt 120
acaaacattc tgaaacataa gttactggct gttttcattt ccatttcaat aactttacta 180
taaaatagtt gttattcacc tattttgaaa tcccaaattc acatctattc atacattaaa 240
ttatgtttcc tgttcataat atcaaacatc tcacaggtgc caaattttag taatggtctt 300
atgccaatcc atgcagaaaa ataagacaca atgcaggagt cagatgagga ccattaatgc 360
acagataatg caaacacact ggccaaaaga actacagaag tttttaaaaa gtattaagta 420
aacagacctc nagaaaactg gggtattact aaacagctct cactattaac acccaagttc 480
cttacattaa ataaattctc acaganactg ttanactttt aattatgaat ctatccttcc 540
catacccctc cacccaactc cccaaatgcc tactagggaa gantntaagt ttnttgg 597

```

<210> 9257

<211> 401

<212> DNA

<213> Homo sapiens

<400> 9257

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aagctggaat cttgctctgt cccaagctg gaatgcaatg gtgtgatctc agctcactgc   60
aacctctgcc tccccggttc aagcgaanct cctgcctcag cctcccgagt agctggggat  120
tacaggcaca agccaccacg cctggctagt ttttgtatit ttagtaaaaa tgangtttcg  180
ccatattggc caggctggtc tcgaactcct ggcctcaagt catctgcctg cctcagcctc  240
ccaaggtgct gggattgcan gcatgaacca ccgtgccag ccaatgactg tctcttgana  300
agggtgtaan gacttggcat acngcaaac ccaagatcaa attcctgggg cctgccatgg  360
cttgggtngg ggttgggaaa ntgttaggga agttaatccc n                        401

```

<210> 9258

<211> 505

<212> DNA

<213> Homo sapiens

<400> 9258

```

attctgtaaa aatggggaat ctcactatat tgcccangct ggncttgaan tcttcgcttc   60
aagcaatcct ctcacttttg nctcccaaaa tgctggggat tatgggcata agccactgtg  120
cccagcctag caaactgttc attttgaaat ggtaatttt atgttaagt aatttcacct  180
cnagtgaaaa aaaggaagan gaaacagtac tgtgttcac atacgttgtc ctcaaanaca  240
gcctcagttc tggcctggga ccttttccac tataaacct gttcacatca gancatctgt  300
gancaaaggg catggcactg gangatttgt gggagaaatg aagtgagaac ttacatggca  360
cctcagtatc aacccctcat cctcatcana taaacctgct ctccacaagc ctttcccacc  420
tccccantca acaaggctcc tttcccggtt cctcccatcc ccaccgcag nctctcctct  480
gaatccanca attctgctcc nanca                                           505

```

<210> 9259

<211> 593

<212> DNA

<213> Homo sapiens

<400> 9259

```

acttcagaaa catttttact taatttcttt aataaattac tgcttaaaca ccctatctcc   60
caactatatt ttacatttc aaaaattatt tctaaaacag anttgaatt ttaaaaggca  120
cctaccatcc atatgacata ctgattaata taatcaggat cactgagttg atttattaat  180
ggaggaanaa ttcctcgtgc aaggatttcc ctgacaaagt atcgcatgat cttgttctgg  240
aaatctccag gaggtagcaa taaatatagt aagacctcac acaaatecct taggaatect  300
tcttcatctt tgggggaagt gcacactana tcacggcaaa cctccttctc catttcaact  360
tcaactcaa agaaaagtat ctacaanac ttctgctgta cctttcactt gatcatcttt  420
ctctgttatt ttctgttgag ccnttctgaa tactcntaag tgtttgccaa agtcatctac  480
aatgctttta ttaaaataaa ggtgccagtc tatttctttt gacctattac caactgaaat  540
aatncttttt gaaaattctg cccatttcca aaaaaaaaaat cnnccnccctt ant      593
    
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<210> 9260

<211> 455

<212> DNA

<213> Homo sapiens

<400> 9260

```

catggtcgaa ataattttat ttatccanaa tatacagttt aattcctcta tctacactta   60
tttcatggc taaaataaca ttgaaaaaag tcttttgaaa agttgaggtc ataaatttca  120
aggcaccatt gaaagtgtcc acagttgcgc aaaaaaagtc ctctgtaaaa aaaggggggg  180
gtcttttgaa atgcaataac ttacatgcaa aaaaaagctt tacacatgaa tctttttcag  240
ttttccgaac ttcccatat gaattccttt ctttatgatt ttctanaaca gcaaaacaca  300
gtagtccna aaaagagagt aagagagagc agcccatcta atanagtgtc ccggaggcca  360
    
```


gcgccagcgg gtgctgtaag gagcccggcg gcggcagggtg ggaattgatt ganctggctg 420
cacttgtgta ccangatgca aanttctcca nntta 455

<210> 9261

<211> 535

<212> DNA

<213> Homo sapiens

<400> 9261

gtgatttaat tatggtttat ttcacagtta tcaaaactaa ataaacaaca gggtaaaaaa 60
tatgcacaga ttaaatcttt aatcagcaca atataagttg cttaganta ctctgttcaa 120
aataaagggtg ttattaacca caggaaaagc tgtttttaag taatctgaat aaagttttac 180
tcagtttcat gactatcaaa aagtcttgat ataacactac agacagaatt aaggggttta 240
aatttttagga ttaanaattt agctatctga ataatttaaa tttcaaacad ttttctttcc 300
ctacatttca ctggcaaaat taacttcaac tattattcaa ttctcttgga ttatgcaaaa 360
gctgctgaaa atttgatgta tgacacattt ggctgacact ctattgcaac ctatgaatgg 420
gtttaactat tacacagtat tcattttcct ttcaaagatt ttacacaata gtgacagtna 480
nanaaaatat gtnttaacaa aaaatcccgg aaaatgggcc tatatganaa atatc 535

<210> 9262

<211> 561

<212> DNA

<213> Homo sapiens

<400> 9262

gggncaaaaa aactttatta gcttagtctc caccctttta aatgtactct aggtacaaaa 60
taaacattat acacatataa natcagtctt tccaacttta gaatgtataa ataanaatga 120
cattttaaaa taaaatagtt tagtcacagt cacacaaaac taccttctaa ggaaaactgt 180
ccagtgaagc cgttaaattt gtgctttcag ctatgaanaa ttaaacttaa aatgcattca 240

| | |
|--|-----|
| ttctttctttt aatgaaaaat aacctaccct tggaaacagc ataagcattg ttatggtagt | 300 |
| ctanctccta aatgaaaatg tggactgagt tacagtttac tgtagtaacc tacctaagaa | 360 |
| gcctttgaaa attagcaatc gatcnaagta tttacataaa ttcaagcctt tttcttagga | 420 |
| <hr/> | |
| caaaaggtaa cacagttcct taacctcttt taaaangaac tttgaaatta aacttatggt | 480 |
| cacacttcat tccaaaatgt gcttaaataa caaatccctc tcncanangc natgtccatt | 540 |
| tcctcgtaac ctcccctgtt a | 561 |

<210> 9263

<211> 576

<212> DNA

<213> Homo sapiens

<400> 9263

| | |
|---|-----|
| gagatggant ctcactctat caccangct ggggtgtaat ggtgtgatct tggctcactg | 60 |
| caacctctgc ctctgggtt caagcaattc tccttgccctc agcctcctga atagctgggg | 120 |
| ttacaggcgc ctgctaccat gcctaatttt tgtatttttag taaanatggg gtttcacat | 180 |
| gttgatcagg ctggttttga aatcctgacc tcaaatgata tgcctgcctc ggcctcccaa | 240 |
| agtgctagga ttacaggcat gagccaccgt gccagcccc atttgttttt ttttcaagcc | 300 |
| aggcttcac cnaaaaaaan aatctgtatc atccttgctt catctataga aatataatat | 360 |
| aaataaattt agcaagtgat atttcctcaa acttgtttcc tctttcctcc tattatctct | 420 |
| actccgattt ccttctactg tgctttttct attttcttaa atatttatga atctcattgt | 480 |
| ttctttctct caactgtatg ttttaaantt catctanttt taaanattca ccattgttac | 540 |
| ccccattcat ttncataattg gnccaattaa cattga | 576 |

<210> 9264

<211> 542

<212> DNA

<213> Homo sapiens

<400> 9264

| | |
|--|-----|
| gctagtagaa catatatatt tttttttatt ctgtatgtta acatatatat taatatatat | 60 |
| atagaagcat gcatatatag cctaatatga tggaagtata atagatttaa ctatatattca | 120 |
| <hr/> | |
| agaaatagta tctatgcata gatagataaa tatgtacata tttctaaagg agaagaacag | 180 |
| gaattttaaa atttctttcc tcatagaact atggcattat ttttgctata accattttaca | 240 |
| taaagtacta tattgtttaca gatatcaaaa atgttcaaat ttatggttgc ttatgaaatt | 300 |
| gtcattagat tttaaagcct gtgaagaaaa ggccatacat attttatcat ctttgaatct | 360 |
| ctatagtcct gggaaatata gtttaccatg tcaactttcn ataaaatgaa ttaatagtaa | 420 |
| gtacatctta aaataatccn gaaaaaata aactttaaca ctcccataag ataattggca | 480 |
| agtaattaat atacctccct tttactttga gaaaatanat cccctatfff cccnnngttn | 540 |
| tt | 542 |

<210> 9265

<211> 381

<212> DNA

<213> Homo sapiens

<400> 9265

| | |
|--|-----|
| gaacgcttag taaaatattt cattcagtac gtcttgTTTT tctgagagag gcaacggcag | 60 |
| agggttgggg gcagtgtgtg tgtatttgtg atgaacctaa ctccatcatgc cagttctctc | 120 |
| gagatttctt cgcgggggct gccgcgagga ancaccctcg cccctgtcgg tggaagaag | 180 |
| gaagagagtt ctctaccaca gaccgctgtg ggtgtagcca ctgggtccgg ctctgcaaca | 240 |
| aacgggttgt gtatgtgtct gcagaactgg ggtgacgcc atctggttta ccgctcaggg | 300 |
| tgatggaatc cantgagctg attaggagaa cgctgtcatt ttccccagcc tgggggtacc | 360 |
| atcaaatcgc cccccntttg a | 381 |

<210> 9266

<211> 502

<212> DNA

<213> Homo sapiens

<400> 9266

```

cttgaanatg ttatttcggt aaaactgaag ctctttgatg ctttcactaa tgtcatcaag 60
tgccctatga gaagcagcct tctttggtgc aaattcatat tcttctggat acccagcgtct 120
gcacagttct ttaacagtgc tcacatcaat tattctataa tgaanatgtt tcatgaactg 180
gggcatgtat ttgtcaagaa acttcttata ttcatgaact gaatttccta gaaagacacg 240
aagcatactg catctctata tttctagtat tataacaacag gatatacaaaa ttcataantt 300
gtatttgaaa tggagatnat tttttaaaat tcaaacatt cctaaaagcc ctctatatatt 360
ctaaatcagg tttgggtaaa tgtgattagc ttacaagtac agatttccaa gtacttagtc 420
cgtttancct ccttataaat ttgttaatga cncacctgaa cagaaaggac aatctntent 480
cccatgcct tgaatnttat gc 502

```

<210> 9267

<211> 540

<212> DNA

<213> Homo sapiens

<400> 9267

```

aactgatgaa acatacattt attttttcca atcaagtctt aaaagtttga tgaaagcgca 60
ttattgttac caaaagtctt caggcaataa cagagataaa acttaacaca gacaaacaat 120
gattttattc catagtctct tggacttgag aatccatttg agtttcagaa agaatactaa 180
attaatgggg gttatgtcag gatgccaatg tccatgctga ggcttctcct gatacaatct 240
tttgcaacat aaccaacaaa gatcaggagc ttaaaacaaa acaaaacaaa acaaacaaa 300
aaacaagttc atgttatttc tacaatgtcc aaaaagaaag accaagatct ttgcttaaaa 360
atagaaatgc atnctgcngt ggctcaaaaa cttaggcctg catccaaatt acatgaagcg 420
cttgtaaaaa cagattgagc ccnctctgcn aagtttgtga cccagtgttt ggtgggggcc 480
aatnatttgt nttctacagg ttcctaantg aatcaagccc tgggtgtcgaa acaccttta 540

```

<210> 9268

<211> 474

<212> DNA

<213> Homo sapiens

<400> 9268

acttgacttc aatgancctc tcggcttctg aagcacctgt aataggttag atacacccaa 60
aacgggactc aacatcagct tccggctcac tgattttcgc aacacagatc tctgacagtc 120
tttctcagaa atgtatcagt acgttctcca agttgtgagc tgttttttca tctttttccg 180
tgtctgcttt ggcttcccag gaacttanag tttctgctaa atggttaaata agctgcccata 240
gttgcaatcc tgggtctttg agaactgcat caataaaagg gatcaacgtg tgcatgtctt 300
catttgatc ctttgtaata tcatttatag taaactggta aattgtttct ctgagttctg 360
tgagacagtc tagcaaatta agcaaaccac angaaggggt catggggatc ccgaattaaa 420
atttaanctt ggtgggcnaa aaccnagtt aaaaaaccng ggggctgcca atgg 474

<210> 9269

<211> 386

<212> DNA

<213> Homo sapiens

<400> 9269

gtaaaattct gtatgtatgt caccattttt tttcacatga tacacagaaa actcaaggac 60
ccagagggga accaagttat gttataccat ttacaaaata ccaaggagtc cacagctacc 120
taacacattt actacagcac aggaaccaat gaaggtacag tgtacaaaaa actgtaaaca 180
cggcacaata aatagataaa acagcagggt ccgcaccatg cacatgatgt gatgacactt 240
catctctaca caatctcaca tctcacactc tttgttgcaa ttgatttccc tcccaccccc 300
caccaccaan tgcaaagcat cacaatatga catttctgtt ttcaantnac atntntacaa 360
ggggtattac aaatatgcag tactgt 386

<210> 9270

<211> 390

<212> DNA

<213> Homo sapiens

<400> 9270

```

aaaaataaaa atatttattt ggaaaatatt agtagcatga taactcaacc tcaccagata   60
ttaacagttc atcaggtcag gcaatanaac aagtccacat gagcttctta aaaagaaatg  120
gatgaccact tcaatagctg actccatctt ccattttatt actggatgat tcataatcca  180
aaatatgaag ttttgggact ttttctcaaa aggagaaact ttgggaaagt gtctgaagca  240
atggtattga tctttttttt ccccttttat gaaactttaa ctgcatactt cagtctgggtg  300
gaatcttttg tgttattctg actggtccat aanaacccaa ggactatgtt gataatcctg  360
atnatttcan caacacttcc aaanttcnct                                     390

```

<210> 9271

<211> 537

<212> DNA

<213> Homo sapiens

<400> 9271

```

catgtaattc agttgatatt taattacaag ggaactcagg ttcttacaca angcaggaaa   60
tggaatcagc cgctccccac aagccttttc aacctgggtg actgaagctg aagaaatggg  120
ganacatgga acatatgggg anggttcttg cacantgtgt cctgccccaa gctganggtg  180
gtggccactg gggatctgcc ctgcgctg ccaaggtctg ccatcactcc atgangcaaa  240
actctgactc ctgctgtcgc atgttgggta acacatacag anccacagct gcaatancca  300
aaaataccat aggcttccac aacccaaaca tgttctcatt cttgtcgttc tggggggcca  360
tgggcttttc aaggcattcc atgcactcct tgaactccct ttcacangca tccanctctt  420
ccttcaagtc tttctgcttg gncaataact tttcatctg ctcttgcaac tgggctgttt  480
tcnccccggc ttatctgggtt acatggnetc accnctgca cttnattaca ctttccc    537

```

<210> 9272

<211> 563

<212> DNA

<213> Homo sapiens

<400> 9272

```

gagaaactat ggcacttta ttattttgct gttagagcca taaatttcac ttaacttcat   60
aatctatgtt aagagtatta gcttaaaaat gtattttgaa aagattttac atacagattt  120
aaaagatagt accttgaaat ggtttacagt taagcaaag aaatatcaca aatacaagca  180
gagctttgag atctgagttt tgtaaagct anaactttgt ttcctaattt tttagttcct  240
caaagaatta agaggctgca ttatataatt catttttagta tgtttacctc aagtactttt  300
agaactagac tgtattttca ctgccacaga tgtatcatgc agggagtatc ctggtttaaa  360
ttctgaagtg ctttcactcc tacttggttc accttgaaaa tcgtctaaaa agaagttggc  420
acattatttt gcgaatgtta ctggacatca ggaaatacat gactggatct aagccactat  480
tgaaagatga nanaaccccc tgatctcctt gggtttggtt aaaattcttc cctttccaaa  540
aaaacttttn ccgtgtaaaa aat                                           563

```

<210> 9273

<211> 381

<212> DNA

<213> Homo sapiens

<400> 9273

```

agagttatga ngttttcact tttatttata aactcaaaaa gggctggagt tacacgatat   60
ttatttgcac acagcttcgt gatgtncat gtgtgttcac atgctccatg ttttttgatc  120
cccacgtaag gctgtgagat agacttgatt tattagtcctt ggtttttagg ctgaggaaca  180
agtccaggag gttcaaggga ctcatcagga tcacacagcc agaaaatanc aaagtctgtt  240
cctgactcca agtcagtang ttttgtcagt ctgtgttggt gttggagana acagtcggga  300

```

gacacatgga ctaacacaaa angaatggat gggagancan gcaaaggttt ggacctgcct 360
tgatcatccca caggacangt a 381

<210> 9274

<211> 485

<212> DNA

<213> Homo sapiens

<400> 9274

attttacttt aaattccggg atacatgtgc agaacttaca ggtttggtac ataactgtat 60
gtgtggcatg gtggtttgct tcacctatca actcgtcacc ctagtgtaa gccctgcatg 120
cattagctat ttgtcctgat acttcccctc ccttcaccct cacccccacc ccaatangcc 180
ccgatgtgtg ctgttactct ctctgtgtcc ctatgttctc atagttcagt tcccacttat 240
gaatgagaac atgcggtact tggttttctg ttctgtgtt agtttgctga ngatgatggc 300
ttccagcttc atccatgtct ctgcaagggg cattatctca ttcttttta gtccatggtc 360
tttttgact gctagataat ctctctaacc ctggcgggga aagccttgc ctgcctaaca 420
atctttgttt gctcatgcat tccatcnanc ctncatgcat ttctccaca aaaatttaat 480
taanc 485

<210> 9275

<211> 423

<212> DNA

<213> Homo sapiens

<400> 9275

acttggccaa ctggctcttg ttctcaacc tgtgaggag gcatcaacc tgtcgggtga 60
cagatgagac tgtggggcag agccanctcg cccaaggcac ttgcttacia tggcagagac 120
agaccttgat acacaggact ccctgataac tgggcatgtt gtctcgatga gtcggggaca 180
ggtttcccct cttgcatctt gtaaacaaaa gccacccta agtcaggaat cttcacacac 240

| | |
|--|-----|
| aagccccagg aagctgcggt ttcctccta gctggcctct ggaccgagtg cagccccact | 300 |
| tgtctccctt tccctccacc atgtcaggct ccgactgggt caggccagggt angcaacaga | 360 |
| gttgccccag ccatactctt ctggagactc tgaatcccct gggacactct canggcaaca | 420 |
| naa | 423 |

<210> 9276

<211> 384

<212> DNA

<213> Homo sapiens

<400> 9276

| | |
|--|-----|
| acatgtctct gcctctgttt tcagtgtggc tttggacagg aatatatgaa taaatcactg | 60 |
| ccatacagggt tttccaatac acaagtgcta gaaaatacac acaattcccc aatgcgtaag | 120 |
| ttgtgctaata gtctttccaa gttctgggtt gggaagtgga nggtggcanc gtttgtttgt | 180 |
| gcgcaaccgt ccagtcctgt tcacagcgag gatttggagt cctccagggt ctcacatgg | 240 |
| gagtgatttg tcagcggacg cctctgccct gtctggcttc aggtccaagg aaactttgaa | 300 |
| ncantcaage cttgtctttg taccatcatgt ntcctgtctt tgttgantca ctcaaaaatc | 360 |
| actcctggac cncctgggggt tgga | 384 |

<210> 9277

<211> 330

<212> DNA

<213> Homo sapiens

<400> 9277

| | |
|---|-----|
| gcataagaga ttttaagaga gcagatttaa gaaagattca gatgacttca cgtgagctac | 60 |
| tgaccatata aaccttgcac gtgctggccc cagggaatat ggaagcttcg gaaggtattg | 120 |
| ctctgccctg cctgggtccc ttgctcctat tgcagccaga agtccccaaa aacctcagaa | 180 |
| cagatatttg cttctagggg atatgagggg aaagcaccgg gaattacat gaggtaatgg | 240 |

atacggctat gcagggtggct tcttgatgac aataaccnt cctcnggagg aagctttttt 300
ttgtttcttc cncagactcn aaatanctga 330

<210> 9278

<211> 537

<212> DNA

<213> Homo sapiens

<400> 9278

ccaatttaaa ttaaacttcc tttaatgaaa taaaaaacia atggtgcatt gcataatatt 60
tgtggtcaca gtataaaaca atacaattag ttcataaac attggatatg gacaaaaata 120
cacaagatcc tttctttgtc tacggaaaat tctgcagatc cttatgtgcc acacttaaaa 180
agaaagtcag cgttttctct tctagggatc tgcacacata tttatcactg anaatttggt 240
caaacagtgg agganaactt acccaaatec cagttccctt cttcctctgt tgtcatcggt 300
gaagctaaaa aaaagttttc tgaaagtagc aagttgtgta ntattgctta ttattcctgc 360
caaaaaggct cantctttgg ctacacagatg tcngtgacaa aatcatggct gcaggcagtc 420
tgcaaancaa gaaacaaggg ccccggggaa acaaacnaaa gtctgggcag gaaggggccc 480
tctnccaaaa tctccgggan ccccncaaat ggtaagggtta aggggggaaa aaacncc 537

<210> 9279

<211> 339

<212> DNA

<213> Homo sapiens

<400> 9279

cctttttaca aaaacatgca tacatacaca gggatatggtg ggtcctaaga aanaacacac 60
acacgcctca ctacacaca cgtcacaca cagcctcac tcacacacat gctcacacac 120
attttccttc ttgaccccag gcctggacce ccaaaagcct tgaaaacttt gccanancag 180
cctccctcc tccatgtctg tatcttctct cccacccctt cccctcagt caggctattc 240

ctatgtgggg tgggaatcaa aactatgggtg ggggaagccc ncaaacaaaa aaaggtcccc 300
ccaattgggc antnggccca ggggtccan gggatatnct 339

<210> 9280

<211> 413

<212> DNA

<213> Homo sapiens

<400> 9280

acatttgta ngttctcacc agcaagaatt ctttgaaaaa tcctggcttc agattttacc 60
ttaagaactt gccacattca gtacatttag taaagtttct gtcctctatg gtctanctaa 120
cggngtatta agccttgaac aaaaactaaa ggntctgcta cattcattat acttgcaaag 180
tttttctcca gtataaatta ttgtatgtct tacaagggtt ttaatgctaa ctgaacactc 240
tgccacatta attacatgtg ttagatttct ttccggcatg aaatctctga tgacgtacaa 300
natatgaatt gtcgcggaag naatttgcca cattcattac atttgaaatg tttctctcca 360
gtgtggatcg catgacnana tantgaggct tgaacgcata ctaaaanctt ggc 413

<210> 9281

<211> 452

<212> DNA

<213> Homo sapiens

<400> 9281

cctcganatg aacatcatcc tttaatatgt gccttttcca tttcatcaca aagaatatta 60
aaaagacgtg tacttaaggt ctganattta ataaaattaa taatttttac tgcttcatca 120
aaaacattct taagtcaaac tggcatttta ttgtaagtgc atgggtggtga aatatacaac 180
tgctagtata atttggcacc acttccttgc tttgtgctaa ggncccaaca gtttcacca 240
cctttgcttt ggtaccattg gtgcaaatgt cagcagggtg aaaaanacaaa actgtattag 300
tattattata aaaatagttt aaccttgcan atgctctaaa aagatctcgg ggaccactcc 360

cagggatctg caggtnacac ttaaaaaaac cncgtctcta ttgccatat gctgccaact 420
gtnactcntt tateccaaaa tttnttcctg aa 452

<210> 9282

<211> 381

<212> DNA

<213> Homo sapiens

<400> 9282

gcagaaacat gtactttaat tcacattttc tagattctgg tgggtacaac agtaaattat 60
ttggaattct gttcaaaatc aaagctgcac ctgtagatat tccttaaaat acagtacaca 120
tagatttgtg tgtgtgtttt tttaccaa atattccacg ataccatgca cctaattctgt 180
gtattttggg gantagctat ggtttctgca ggtacctcag ttgcaaact actgaaagg 240
ttactgtgaa ctgttcccaa attttcagct gaaggcaatg ctgatnaaaa tcaaaataac 300
tgtcctttct tatatacagt ggcacatagg cnaagttgaa aaaacatggc aaantttcat 360
atacttacng anattacaaa t 381

<210> 9283

<211> 447

<212> DNA

<213> Homo sapiens

<400> 9283

ccaaaaccac acagcttccc tttttattga tgctcaagaa gtgaacttta aatgacattt 60
cataagcaaa acacaaatga aaacaccta tgtgcatgta tagtatatgt aaacatacat 120
agtatatgga ctcaatcatc ctcatctaaa tataaaaaga acaactgggt ctttgacctc 180
aaaaataaat tcaatgttgg cattactgtt ttttaacttac agtgttttat atttaacagg 240
aaaaattatg aataaccaag ttgggtgtgg tcatggattt catgttaagg tataaatana 300
gtttttaaga aataatctgt ntaataaaat aantttactt ttgaatcgca gtacagtcac 360

tnccttcaat caataaaaat atcccttgat tacaaagcac cttattttgc aaatgtnttc 420
aggaaaatan ctctancatn ttgaaat 447

<210> 9284

<211> 361

<212> DNA

<213> Homo sapiens

<400> 9284

cctcaggacc caataaattt tatttcaggt ggggataagg gacaagcaat gtnaaaacag 60
ggaaggaaan aaggaagtct ctatnttctg aaggactgcc taccctactg ttganagtgc 120
cacattctgc ccttttagca attttaatta atttttacta ggactttggt aacaccacan 180
aaaccctgtg gcttccctgtt aaaatgactg tgttacatgc cttattttta ttaaagtgga 240
atttaacaaa tacttttatt attttgaagc atttcatcna ttctcggtgg aagcactaca 300
tcacgaatg ggaaatcnac naatgaaaaa tgaaaaaaa gattatcctt tcccagtnag 360
c 361

<210> 9285

<211> 336

<212> DNA

<213> Homo sapiens

<400> 9285

actttttgaa agtttcattt aggtgctatc atttaaaaaa tcagaagata tcacttaaga 60
atccagcatt ctagtttctt tcgaaaaatc agaagatctg gcaacactag gccacattc 120
cggcatggca acaaccagct anagcgggtgc tggctgtnc cctctgtgg ggcttgtgct 180
ctggtttctg aagtcctaac cctcaccagg cccaactgcc acctacgcca gctgcatggc 240
ccctacactg tgtctctgca cgaggcagcc cancangaag gaacaanagt ggggggtgatg 300
agaggttgct ctgttcagcc ctccccacta cccaca 336

<210> 9286

<211> 519

<212> DNA

<213> Homo sapiens

<400> 9286

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gtgagagcct ctgtggacca ggggaagctg tgggtgtgagt tccatgctag ctctataagc 120
caggctctgg ggcagcatcc aagacgctct gtattanata ctgaccagtc tcatgtgcca 180
ctggtgagga ngaanacaac gtgcttttcc caaagggcga tgatctcccc aaatgatgac 240
ccttctcagg aggcagganc gctttcccgg aataaccttt tggtcctta ttcagctgct 300
gcagcanata ctcatataatt accaccaagg atctctgact ttcattggaan aatggcaact 360
gtcttctccc gctttttcca nctnggcaan ctctgtgttc caggcaaccc ccttgcattg 420
tcacctgttg gtttttgtcc aaaaatcanc ataattnttt gactgttgcc cctcccaatt 480
gaaatggcnc cctnccncc actgttgaat ttttctga 519
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<210> 9287

<211> 452

<212> DNA

<213> Homo sapiens

<400> 9287

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ccattcanaa agcctatact tggcctgttc tgggcctgat tanaaatcat aataccttct 60
caacgcttca acnacttgct gtttaacagg ggaaaacaca cccccaagc cctgcgtgtg 120
tcgcacaggc atgctgcctt ggcgatgctt tatggaactt ttttaaaact acgtctgcaa 180
tgtctgcccc ttaaaaaana aaagctgatg ggcagcaaac tgcagccatt tctccatctt 240
ccttcgcttt cccaccccca tcctgggcag ctttcccctc cccccaatct cctggagggt 300
gtggcattaa gctctgcagt tgtgtgcaca ttcaagtgtt tatggcaaaa actggggaaa 360
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aaanancaaa ttgtttccaa gctaganctc ccatgttgca actttgcttt anaaaanact 420
tccatctggg gaaagctcat attctgatga aa 452

<210> 9288

<211> 483

<212> DNA

<213> Homo sapiens

<400> 9288

ctctttcctt tctttctggc tctttttcac ccaggctgga gtgcaatggc aagattatag 60
ctcactgcag cctcaaactc ctgggcccac gagatccttc cgtttcagcc tcttgagtag 120
ttgggaccac aggtatatgc caccacgcat ggctacattt gttttgtttt gttttgttta 180
agagaaggat gtctcactag gtttctcagg cctgtctaga actcctggac tcaagccatc 240
ttcccacagt ctcccaaact gctgggatta cagggtgtgag ctactgcacc aggcagggtt 300
tttgtctttc tgtgaggga atgtgggaga gacagggaga tgttttctat ttttggcctc 360
tgcaagcttt aatatatttt gctagaagct gttttagtgt cttgagtact ataatgatga 420
ctgtttacac atagtctctt tagtaatcta aatgtctatg tgaaataana ntccanttgt 480
gcc 483

<210> 9289

<211> 432

<212> DNA

<213> Homo sapiens

<400> 9289

atttatittg agacacagtc ttgctttgtc acccaggctg gagtgcagtg cagtggcatg 60
atctcggtc actgcaacct ccacctccag gtttcaagtg attctcctgc ctcagcctcc 120
tgagtagctg ggactacaga tgcccggcac taagcctggc taatttttgt atttttagta 180
nanacggggt ttcacatgt tgaccaggct gttctagatc ttctgacctc atgatccgct 240

cgcccttggcc tcccaaagtg ctgggattac aggtgtgagc cactgcaccc agcctaaaag 300
 tcattttaat ttgtaagata tgtttactgt tttaganana canaagctaa cttttcattt 360
 tcaaggactg ctgaacaatc atccatgaat tcttgaaatt gaataacang aaactgttnc 420
 ttgtttttcc aa 432

<210> 9290

<211> 499

<212> DNA

<213> Homo sapiens

<400> 9290

aaacaaatta actttattac attgctactt caacttcagt ccttacattg atttgttttt 60
 taaaaaatac cagtttgaaa cacattactg aaagtgagtg tacacaataa atagaaaata 120
 gggatgcata gtgctggana cattcaacca acttatcttc atctgttgcc tactgttgta 180
 gacaaaattt gacacacaat tagcatcact gaaagagcag ccaaactacc tcggaaaaag 240
 tggcaaaacta ctggaaaagt agcttaaagc tctggaccac tcaccnnna aaaaaaaaaag 300
 aagaaaatnc cctgtttatc tgggagctag cctcattatg gcaatgaaat ttatctacta 360
 gtcataanaa caatttttaa aatatcaaaa ntccaggga ccttcctaa cagtttttgt 420
 tttgtttttt ggaaacaaat cccctctgt tgcccaggct ggantgcaca ggggnatntt 480
 ggntaactgc anccccccc 499

<210> 9291

<211> 414

<212> DNA

<213> Homo sapiens

<400> 9291

aattcaatat tttattatag tccacgtata aagataattt tcatgagggt tacatgatgg 60
 atagctagca aaagaaatat gctagcacag ggtggtaact gccaaactaag catgcactga 120

accaacagac tacttcagta agtccttgat tattgccagc ttttctataa tgttcaggtt 180
 ctcaaaggtc actgaatitt ataattatct ccaaacaatt ttcttcatgg tcatttaagc 240
 tttgtctaaa cagctgggtg tgttgccaag cgacatcacc atctcctctg ctttaattctg 300

 cttccaaaat aacttcagtg gcaccagaaa aaatcancat aggantgaaa actgttatcn 360
 cctgtcagtt ctacttgtgc tgtatcaaat cgcaatttcc atnctnctgt tcca 414

<210> 9292

<211> 521

<212> DNA

<213> Homo sapiens

<400> 9292

ccagtgccta tgacattctt tattcaattc acatagaaaa gcatgcagta ttaatgtnaa 60
 acagtacaat attaatgtna aatgttcagt gcacattaaa cagcatacaa acccattttt 120
 aaagacctat ataggnatac caaatacgtt tagaacaata cactttttca naggctaaat 180
 taaaaattgt gcttacctct tacctatctt caccctctca acactcttca cagaaaagtt 240
 ttgtcctaca taaaanatat tctatcagcc aactgaaacc tctttttctt aagtatggaa 300
 aacacagcaa gcaaaaatgc taccatgcat agtttccaca aagaacagga acatgcaaac 360
 aagaaacata ctactcaaaa gaaaactccc ctggaatgca agtggatcaa gaacttggcg 420
 atgaagctct ttcaaacctg ttacatctgg aacaatgaan ctatgangtt ttaggtccnc 480
 taaaacccaa gtggtcnag gcctccttcc ntagtatggc c 521

<210> 9293

<211> 465

<212> DNA

<213> Homo sapiens

<400> 9293

aatgggcatt gtgaatgaaa atatgtaatg tcaaccttta ctttatggta tcttaggttt 60

gtctttcttcc ccttcatagt tttccccttt gaggataacc cttcaagctc aaaagggcac 120
 aaaagctaaa acgttattca cgtncaaaat accaagtata tagctgttct gcagtttgat 180
 acagaacaaa agaaaataac ttttctaatt aaatccctca ttctgtactt aggccagact 240

ccatccccac tacagtttta cttgtattaa caggttaaga ncaatctagg aacatttggc 300
 aaacaagtac attttttaca tggaaaaaac tcaatcaaca tcaccattct ctggtacaag 360
 aaatacaaaa cacatttcct ttaaaaaatc ctcccagtcg tgaagtntct tctaagcttc 420
 ccanantatg tcctaagctt tataaataat aaatctttca nanat 465

<210> 9294

<211> 557

<212> DNA

<213> Homo sapiens

<400> 9294

atTTTTTaaa gctcatgtgc accagaattg agaatcatag aactagaaaa ttactgaact 60
 ggaacacaat ttcataataa gtttccacta tcataacaga gttgaccagt tattcagatt 120
 aatccatgta aaacctgata acccataaac ctttttctct tggactataa actcatagaa 180
 ttaaacaagc acatcctttt acttcttggg ggggaggccc tcttcattga actttganag 240
 gctcaggtca ctaccacaca tggaaaccta agagtaggag ttcgggtagt atggctcaat 300
 tactgctgag ttaccacttt tgtcctgctt ggccaaaagc gctaaatgga agagtagatg 360
 aaaaagacac aatgcatata tttttcattt ttcaaatac ccttttactg ttcacatttt 420
 aaatggagac aaacaccccg gaaaacnaag aacacttatt tgccaaatcc ttttcccaac 480
 nttaagaccc ctttgattcc ctccattact cccaaatggt tgttttccna aaattccnnt 540
 tccttacaaa tcctgan 557

<210> 9295

<211> 592

<212> DNA

<213> Homo sapiens

<400> 9295

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gaaaggcatc | tatatataaa | atctttatta | caggcagtat | tggtccatac | actaacacaa | 60 |
| taccaacagt | acaggtttta | tctttcaaaa | tcatcattta | aacagcaaaa | gaccaagaaa | 120 |
| taaaatttga | gtcaattatt | tttcaaaata | ttctcaatgc | acattatcct | taattccctt | 180 |
| attatagtga | aacatacaaa | tacagaaaaa | taccccatit | aacaaatact | agtgttaa | 240 |
| ggttatttgg | cttaaaatct | gagttaagaa | aatccitttt | agcaacctac | atacagataa | 300 |
| gtagcaaact | ttattatatt | aaacaaattc | attctgctaa | aacatgtaaa | gaatttcac | 360 |
| catcatgtat | tctgatecca | gtacaagtgt | ttattctctt | accgtcacga | ttcttatatg | 420 |
| aaggaccaac | tcaaagantt | gtcctagata | taaccttata | ctctcccaa | cacacttcat | 480 |
| ccaaaantct | gttcaacaga | tggcaaccgg | gttgcatcac | ttcaccatct | gatgccattg | 540 |
| gtcccgana | acgtggccag | gcctgtgaaa | naccattcc | nactacngtg | gg | 592 |

<210> 9296

<211> 487

<212> DNA

<213> Homo sapiens

<400> 9296

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| caaagccg | caatcatctg | cattttattt | gcacctcatt | tgcaagttgt | taatttgcaa | 60 |
| ctctgtcct | tccactccag | gttccttctc | tccatcacc | cctcaaattc | cccagtggcc | 120 |
| cagnaaaaa | tatcttggtc | tttgccaagg | tanactcagc | cttgtcagca | ggcctgtcct | 180 |
| gtgttctcag | gggaggcctt | tacccaagc | cacaacaaca | gcaggaatcc | cgagtaanac | 240 |
| gccaccttga | cggcagggaa | ggctggatct | ttcacagg | caaaactgat | ttgatnaggt | 300 |
| gaacagtaag | gtgagcaaan | gtgggaaagg | ccagtggtg | aatgcaggaa | cagcaccagn | 360 |
| anctagaacc | caactctggc | ctgtgggctg | tctcccggtc | ctcaaaagcg | gganngggtt | 420 |
| ccccaccac | caccactgtt | tccccattat | tttctggcat | ctccaaacnc | nggaaaaacc | 480 |
| caatncc | | | | | | 487 |

<210> 9297

<211> 305

<212> DNA

<213> Homo sapiens

<400> 9297

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acttcctaa aggaacctgt gatgcaaggc ggaataaaac ccctgattca tgtaagaagg 60
ctgatgtaga gcagtgggtc tcagcccagg gagcccagta gattcacctg gggagctcaa 120
aaccggctgt gtggggctgc agcccaggcc aagaaactca gcatctccgg catagtgaga 180
agggggctct gtgttgagga gtacaattct ggattcaaat ctgtcaccta gtgggtatgt 240
gaccttgagc ancttctaaa ccgttttgaa cataatctca tctgtgacat gaaggtntac 300
tcnct 305
```

<210> 9298

<211> 442

<212> DNA

<213> Homo sapiens

<400> 9298

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acaatagaaa aatattgttc actggtttat ttttccaaat gagcatcagg ctatttacia 60
atacgcagcc ctccaatgac gtgtattaaa atggcaagtc tatcactgtt tgaaatctaa 120
atgaaaacaa atttattaag gcacatttga tctganaatt taactttctg gtataatgac 180
agattcattt cacttttgtc cccaaaacac atgagcacca aaattgtcaa agaacactta 240
atatttagta aaacagtaag gaatataaaa attaaggagg ggaaaaagcg tttccnaaag 300
gaaatctttg gagatcggtt tactgcaaat aaaacagact aaacaccctc ccgatacaca 360
taaataatac taactaacag gtctcaanaa tggcgaacct ctgaacacnn attttaatta 420
atttaanggt tttcccaatn cc 442
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<210> 9299

<211> 533

<212> DNA

<213> Homo sapiens

<400> 9299

gaagaataac aattgagttt tattctttta aggcatcttc tgatttacat ganaattgag 60
 aaactgagat gtatgatttg tctgttagtc aatttcacac ctttcattc tcataagccc 120
 caaattttgc tcagttaagg agcttgcttt aggcccacct atgtaagtct gttatactag 180
 ctaatgtgcc catttgaata gttcaagggt cagctaagtc tctgagcttc atggctccag 240
 tataaanaac aaatttaaca aaattaagct gttactgtag ccgaattacc cttctgctcc 300
 acacatatgt nttgggatct tgcaggattt ccatagtgcc aattatcaaa ggccttgact 360
 acttancatt gctgtattac agatgtncaa actgaggcct gaaaagtcca atttaaagtc 420
 ntattgaagg gnccaaaaag gaagcttatt ttggggcttt ggccatttta cctacttacc 480
 taaaattgct gcnaaacacc ttttaaactt ttcaaatttt ttgacggttt nna 533

<210> 9300

<211> 430

<212> DNA

<213> Homo sapiens

<400> 9300

aatcattgag tgttttattg aacaattaag aaatgtntaa ccatttcatt actttacaat 60
 agtaaaactg anttghtaact ttttctgtga atatgcgaat ttgtatttga aagannttag 120
 acttgtattg aatgagatgt atcttgacta taaagtgttt tctttttcag tacaaaatat 180
 acaaaccagt acatgtttta aacataaata taactgagaa taggttatgc ttctactcaa 240
 atgcacttgt ggaaagtacc attcatccgc aaagacactt ttaataagct ttgacaggaa 300
 nacaaactcg acagtgttgt cagattttct atttaaaatt acatttatat taaccccnac 360
 ctttcatttt agcaaaatgg tttatggntt cntcnacttt ataatattha caaagttaaa 420
 cttcnactcc 430

<210> 9301

<211> 473

<212> DNA

<213> Homo sapiens

<400> 9301

```

caagttattt ctatagcana catatTTTTg aagtctaccc acccctgagt tcagcaatta 60
tactttgagt gtaaaattat atgcccttaa ttaacaacat gtacaaagct acaaaatgtc 120
atctatacag attaaaaaca attttaaaat attatttacc aattattgat tgaatggttt 180
tactggggta cgtatttcaa acctttcagc caactggctt tcagttttaa gcccaaattg 240
attcatatat tcaactgcagg atatttcaaa aagagtgcaa caataaggca ttagtaaaaa 300
taacattgta gtanaaacan attttgcata tgtgaaaagg taatttataa aatacattaa 360
tcacttttta aaaagaactt antttagta tcattaactc ncatgggtac tgaaaaactg 420
gacctttcac aatTTTTTTT ttctataaaa anttccanct acctntaagc aaa 473

```

<210> 9302

<211> 482

<212> DNA

<213> Homo sapiens

<400> 9302

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cagtagcttt tcaagtttat ttaaaaaagc agaacacaca aaaatacata caacacccca 60
gataatgtcc ttacagaat ccagtatgt ncaacagata cagcagancc tgtctgttgg 120
aaggtgggag gccctgcagc cctgtctccc tgcctcctgc tctatcgcca ccccccaact 180
gcagcctaca aggttcctaa ggtacttttg gaaaatccta ggcctctgag gaacagtttg 240
aaanactact ttagaaaatc tttcaagact aacgttcaac tctatcctaa attataagat 300
aaagaggttg atgacaaact ggaaatcacc ctcntgcaga aaaaaacaaa cagggtctaa 360
agcacctan ggagaacaca atgtttctca aagcacaag acctnagct ctgagccccc 420

```

tcctgtntta cctggggaaa tccttaacct tctaggcctt anctncctcc ctnttgaatt 480
ta 482

<210> 9303

<211> 538

<212> DNA

<213> Homo sapiens

<400> 9303

cagttgtaaa aaattgacat cattattcta aatgttatgt ggaatcacag gaagaaacat 60
cattgcaatc attattcaaa gtaatattaa agataacata aganatgttt ggtcttaaatt 120
gtcaatttga atgtatagtg tctacaataa tagatcaaag agaaagtaag tataatctgta 180
ataaaaacaa gaaaaaatga gttgcaaata ctgtattcta caatgaaaga anaatgcaga 240
ttaaggataa aacagtcctta ccaactaggg cacctttaag gatcattttt cagggtagct 300
aaaaggagta acaataaagc tctacacata taactaaaat gtttgcaatt aatctantcc 360
cagcactttt atttgttagag ttctcaaate aaaagtaaca aataattata cctcngggat 420
tgtaggaat accaattatt ttacaactgc ccctacntgt ttctcctccc tgaccaagtg 480
gcacaaatcc agcctgctgt gtttaataca anccctncct tncgtcaana actccttt 538

<210> 9304

<211> 480

<212> DNA

<213> Homo sapiens

<400> 9304

gtatttaata aaatggcaat ttgtaaattc tgggtgaatac tcnaaattgt agctaaaaac 60
agctatctga atatagggtt aaaacctcna agacacagag ctaagaaata tggaatacat 120
tgtatattgc tttttcaata gagtagacat aaaattgatg acaaattgtt ccaaaccctc 180
aataagaact caaaacatca tactatgcca agctgaatta cagaagggtg tctaagaaag 240

aanacagtgc atcagttatc tctagataaa gagccagtaa aatcaagttg catttgatgt 300
 atacatctta ttgggagtag ttttcagaaa gcaatttccc tacaacaga aaaagcattt 360
 ttttttcta tttcagtcct taacantgtg gtctcccata aaaaaaatg actacttgaa 420
 aataanaagt ttttctacc ttaaaacttt nttanggggg ttnaaatagg aaattgtccc 480

<210> 9305

<211> 513

<212> DNA

<213> Homo sapiens

<400> 9305

cgattcaatt catattttat ttagtacatg gctgatgttt cctgtgaatt tgtgaacatc 60
 agtgggaaaa atacatggca ataaagtaaa attataaaat acagtanaan attatggttt 120
 gaggtaatac caatttggat agatttttagc aagtaaaaaa tatacaaatg aagtatattt 180
 atatacccaa gtcattaaac agccctttat ttcttgagct ataattttaa tgaggggaat 240
 gtgaactaag acctataagc acatagctat gtatagttct cattgtggtt attacctttg 300
 atggagactt gtttttcttt taagcctttt tctcccctgt ttgatccttg aagtccatgt 360
 catctcttga tagtactgca gacagctggg tctgtgccaa atgctgtagt agatgtcatg 420
 atcctttccc tcctttatcat tccattcact ttgggattca tgnntccac aaatattatc 480
 natatttaca gatggcncag atgaactccc tcc 513

<210> 9306

<211> 563

<212> DNA

<213> Homo sapiens

<400> 9306

aatgaaaaga aacattttatt tacactttgt acatatcgat tccaacaaac aataaaaggc 60
 ctacacatca gtataatcat aatatatgcg aacttccgat cttctcacac ttgcagtga 120

tctgatgctt tcactcctgg ttctgatatt tgatTTTTtg aacagccttc ttgaaaatga 180
 cctacacatg aaaaagtaaa ttattggatc caggcaaaca ttacacgcag acaagaaaag 240
 tgtaatttct ttgcagtaat ataggatttt ttgtgcagat tcactctaaa gcctgtctaa 300

gtgactaaaa gtaaaaggaa ttctgcacaa gtgatatggt agaaagcagg tnaaaaacac 360
 agccacaaca accctgatgc tctggttatg ttttcgcttt cggcttgact gacttatgaa 420
 ttgcctgctg gatttgtgga tgttctggat atggctatgt tacatccgat cagaatccca 480
 ccacggcaca aacaancact gttcccatag gttactgccg tatgcccttt gancccaaaa 540
 ggacttttaa tttttgaacn atc 563

<210> 9307

<211> 510

<212> DNA

<213> Homo sapiens

<400> 9307

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 actgcaacct cgcctcctg ggttcaagtg attctcctgg ctcagcctct cgantagctg 120
 ggattacggg tgcccaccac catgcccagc taattcttgt atttttagta aaaatgggggt 180
 ttcaccaggt tggccaggct ggtctcaaac tcttgccctc aaatgatcca cctgcctcag 240
 cctcccaaag tgctgggatt ataggcatga nccacagcgc cagcccacct cacagattta 300
 ctganattaa atgaaaaaca tcctataaat agtttgtccc aggcaccatc taagcacaaa 360
 atacagtggg ggataaaaca aaaaacaaat cctgccttc ctggaactga aattccaagg 420
 cgttaaagtg gaaaaagcaa aatcaaaaaa ttagctntca attcgTTTTt aaaaccncac 480
 cccantgggt gcccaaccatt ggcattttcc 510

<210> 9308

<211> 437

<212> DNA

<213> Homo sapiens

<400> 9308

| | |
|--|-----|
| gagatggagt cttgctctgt tgcccaggct ggantgcagt ggcataatct tggctcactg | 60 |
| caacctctgc ctcttgggtt caagaaattc tctgcctca gcctcccagg tagctgggac | 120 |
| tataggcgcg caccaccaca cctgtctaatt ttttgtatit ttagtaaana tggggtttca | 180 |
| cgatgttggc caggctggtc tctaactcct gacctcgtga gctgcccgcc ttggcctccc | 240 |
| aaagtgttg gattacaggc gtgagccacc gcgcccggc aacacctctt aagggtcaag | 300 |
| tnctgattta agacctgggg gtccatcaag aatgacaaat gctcccggct ctggggcggt | 360 |
| tcccggccaa tggaagaaaa accacttgn aaaaaaacat gctcaactcn aacaggacct | 420 |
| gaaccatnaa aaaaaat | 437 |

<210> 9309

<211> 556

<212> DNA

<213> Homo sapiens

<400> 9309

| | |
|--|-----|
| ggaacaanan attttaactt tttatggcaa aatttactgg tgtcaattgt attttaattg | 60 |
| aaaggtaac accatgttgc tgtctctatt ccaactgaaca aaaatgactt tgaaatanag | 120 |
| gaaaanaata gccagtttta actggcgana attttttaaa atcacatttt cacaacacta | 180 |
| caacatatgg anatgtinnac agttagtctt taacacanan tgctgtagta ttttatactg | 240 |
| tggtgcttgg ggaaatatc ctantgaata accggcagtc tgtgcaggaa ccancagtcc | 300 |
| acatttctag gtntaaatat ggaggaaaan cttctgtccc cgcctcaana aaagtggact | 360 |
| ccnaagggt acctgtctca ttttaaaacc tataccatga aaaccaattc ccanttccta | 420 |
| cactctgttc taccttcata attttncttt cacatatttc tttccgccag ccattccaggc | 480 |
| tctgccant tattaacttc cncaaaataa tccatttnc cctccttccc cctnanaaag | 540 |
| gactnctttt aanttt | 556 |

<210> 9310

<211> 513

<212> DNA

<213> Homo sapiens

<400> 9310

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ctggctaatt ttgtttttta atgagaaaca tctgagttgt acatatcaca aacagcttca    60
agtttctgta ccaaccccc gcccccaccc ccgccgtggc caaacagtta aaacccaaag   120
caaagcatca ctttgatgt gaaaaagtct tanaaaatta acttacaaaa acatccctat   180
caagtcggta gtttggcatt tactttacat tagtcaaaag ctccagctaa aatctaattt   240
ttttaaaaaa aaatcgaagt ttacattatt catacagatt gggcattggt aaaaaatatg   300
cacaataaac cacatccatg caatataatt tctttaaaaa tttaaagcna tataaaagag   360
caganctagg tncatgaacag aacattttgg tgtataaccg gcagctcaa attgccagct   420
gattggaatt aaactgaatc taacgtttta aatatgaatg atgtttcct ccactaangg   480
tgcccatnat ttctgaaaca ttccagggtg aat                                     513

```

<210> 9311

<211> 458

<212> DNA

<213> Homo sapiens

<400> 9311

```

acatttgcct ggttttttatt gaggatct ctcacgacaa aatcatgaat attacactga    60
aaggnttatt acattatctt tgtgtagtta ctctcctgta taaaccctgt gatgttccgg   120
ttttgatgcc tgggtaaaag ctttaagcatg cacgttacat ttgtatggtt tcatcaaaaa   180
agtttttgat gcctagttag actttggcct gcggaaaatc tctatcacat ataattatta   240
taaagtctct ttagtatgga ttctctgatg ttgatgaatg tttgaagtca taatggtttc   300
ccactcncag tgtttttggt tctctcaagc atgaattttt gcaatattgt acaatgtgag   360
aattgtgcca naaanaactt gccacattca ttacatttgt tagggttctc accancaaaa   420
aatcctttga aaaatcctgg tctcaaattt taccttaa                                458

```

<210> 9312

<211> 464

<212> DNA

<213> Homo sapiens

<400> 9312

```

ggtaatgaca gggctcttgct gtgttgccca ggctggctctt gaattcctgg tctcaagggg 60
atccaaggaa tcttcccact tcggcctacc aaagtgtctga natttcaggc gtgagctact 120
gcaccagacc agtcacttac aagtgtgtct gatttccaca tatttgtgag tttcccaact 180
tttcattgtt ttctaacttc atcccatgtg gtcagagggc atgctttgca tgatttcagt 240
ctacttatat ttattaaggc ttgttttatg ctttaactta tgacctattt tggagatgtt 300
tcatatgcac tcnaaaaaaa tatgtattct gatgttgggt ggaaagttct atanatgtct 360
tttaggtcaa ttgacctat aatgttggtc aagtcttcta tttcctgggt tatctnctgt 420
ctaggtgctc tattattgaa aaaaggggtt ttnaatatcc canc 464
    
```

<210> 9313

<211> 524

<212> DNA

<213> Homo sapiens

<400> 9313

```

aattggaatc agacatttaa tggcataaaa acattgcata tatggctttg ctgttccgaa 60
tgtcatgaac ttaaaatcca aatatgacat aagcagtttt aagacttatt ttggccagcc 120
tcccaatcc caaaggagat taaaagtaa taatgtaaaa aagttaaggt caaggtgttt 180
taaaatcaac atctcagcta atgactaacc ctttgtttcc tggggacttc tgctctactg 240
tgaaaactgc tgancttaac ccgctgttga acaactgggt agttattagt tccctgggtg 300
attgtccctg aagttaagcc atgctctggg gacacatgag gcactttaat tggggtagtt 360
actttttcca gggtgggtac aatgtttggc tctcaaaaac aaggtaaaca gtttacagtc 420
    
```

aaaaagaatg ctctgtgaat gtnnccctt gggatcaagg gttgaaatct taaaattttc 480
cccctaacct ccttttcnag tttcccaaaa aaatttttaa gggt 524

<210> 9314

<211> 485

<212> DNA

<213> Homo sapiens

<400> 9314

gttttgcct ccaaattttc ctgtagcaaa atgaaattgt tgtctcctat cagattatag 60
caatcctggc attattataa aagatttccc ttatctaatt ggaactaaga agtgatatgt 120
tttaatctga gatatttcta gactgacata aaaagtaaag ttttgaattt ggctatatca 180
cttaacccat aaacaagctt agtacacctt acttcagatt ccttatgaat aaattctgac 240
tttgatagaa aaattaacac aagtttattg tatgttttgt gtgtcagaaa ttgtgctaca 300
tgatagaaaa cacacagaaa cataagattc tcataaggnt aaggactatg aaatataagg 360
aatcaataa aattagccaa aatgcctcat gaaaatgcaa atcatgtttt aaatgctaaa 420
gagactcata ttaactgtat agaactttat attccacnc nttatgaaan tgaaccacca 480
gtgaa 485

<210> 9315

<211> 469

<212> DNA

<213> Homo sapiens

<400> 9315

cacaaaaaga tgtattttca ttcatgagta ttacatttt tcatatttgt ttaaagaata 60
tcatataact gatacttct gaaatgtttc atgcttttaa actcttctat ttacacttat 120
ctgacatgga attaaaacta aaatgggtcaa ataccatgat aatagaaagc aaccagccaa 180
catagctagg tcttctctta aatttgctga tcaacattag cagtagttac ctaataata 240

aattattcat tttaaaatca gtagtaactt tagacaattc ataaataagt gtgctctgtg 300
 caatttacac gtttaatatc ctgtggatac taaaagcttg tatattgtca gatttgcaca 360
 ttattacttt atcaaaaaca gtaagctttc ccaaagatga agctggggaa acttgaaaan 420

anattctaaa gggctctctgg anaattatcc aagctctgcc tgctttaca 469

<210> 9316

<211> 332

<212> DNA

<213> Homo sapiens

<400> 9316

attctaaaat ctcaaccaa atgatgggat catgggtgca aagtgggttt ttcctttaaa 60
 ttgtgagaaa ccatttcac atttcanatc taatgggtgtt ctcatgacat tgcaaagtag 120
 tattttatgc cctcaaaact gaaccttaag gtananacaa ttgctccccg ggccaaacac 180
 agatccctcc aaccctcac tgtaccttan gaaagctggg gttaaactaca gattcaacaa 240
 aatctcaata agaaaatccc aaaaaccttc cccaatgccc tgtggtttgg cctgaacata 300
 nggaaaatgg actgctgggt ggctacnnaa ca 332

<210> 9317

<211> 495

<212> DNA

<213> Homo sapiens

<400> 9317

ggctgtgata ggtttattca gaggaagcac tagactctgg ggtagctcac atgggtaaga 60
 aagacttcca ggagcaggca ttgaagggtt ggcacctgg gtgagtgtcc aaggtcagcg 120
 agagtcactt gtggagggga cggaagatga cctggctgat ctggccaggg atggtgtaga 180
 agaccaggag gaggaagacg gtgagcagca ccagtagcag cagcaccagg gtgcgccagt 240
 accggcgcca gatgaagaag acaaaggctt tcagcgggtt cacaaccag ttgaaggaag 300

ttttggggcg gctgggtttc tccagaggct ctggctgctt ccgccccttc cccactggcc 360
gtttctcggc ctctccaca gtcagcagct caaactctgc ctccaccttg cccgtgagga 420
tgtncnctt gccacccatn tctgtgaact ccangtctnc tggccggncc ttcctcctcc 480
tctgctttcg ctctt 495

<210> 9318

<211> 336

<212> DNA

<213> Homo sapiens

<400> 9318

aacaggaagg attatttatt cttctttata gtgttatcaa ttgatacaat gtcccaaag 60
ttgagaaaat gctaaacttt tagcctacaa ggattacctt aacaaccaac agaacacaag 120
cagtcactct tacaatcgt agttttaccc cagtataag tttgtctaac ctccagcctg 180
cgctgtttct caggatcttc ctcatctatg attcgctcct tctctgctct tttttctcc 240
tcccgccgan actgtgctgc ttctgtctt tgcacatgtg tcagtttcaa gaaattctct 300
tctactcggg nacggtctt atctgctttt tgtttg 336

<210> 9319

<211> 437

<212> DNA

<213> Homo sapiens

<400> 9319

gagacagant ctactctgt caccaggtt ggagtgcagt ggcatgatct cgctcactgt 60
aacctctgcc cccanagtt caagtgatc tcttgctca gcctcccaag tagctaggat 120
tacaggtgcg tgccaccaca cttggttaat ttttttttt ttttttttt tgaaatggag 180
tctcactctg ttgccaggc tggantgcaa tggatcaatc tcggctcact ataacttctg 240
cccccggtt caagcgttc tccccctc agcctcctga gtnnctggga ttataggcac 300

ctgccaccac atctggctaa tttttgtatt tttagtaaaa anaaggtttc atcaccttgg 360
gcaagtttgt ctigaacttc tgaactccag gtgacccctc tgcctcanc ccccaaattg 420
ttgggattac cacttna 437

<210> 9320

<211> 477

<212> DNA

<213> Homo sapiens

○ <400> 9320

aatgaattct aggatgaaag accaaaatta ggaaagaaca aagatgcatt catgaattca 60
agaggagtca taaagaagcc aagagtattt taacttacac agtaataaca taacattaat 120
caaaagttac agaanaacaca gctcaggctt gtaggtttac aggcaatana cactgtaatg 180
acagtgtttt ttttttttgt cagtacttct atatgaatta cgtttcatct tttatttgta 240
tatccattca catgctacat aatgttcact ctigttaaact cccaacacat tccagttggc 300
tccattaact tcagggagtt ctgtagcacc tctgattgtt aataggatac acaactccca 360
taggggaata ttatctcccc actgagccaa gctaactgtg agangtatca ccttcccaac 420
cagccttctt ccgccccctt ctgangcatc gagctgcagc tccaggtnga caatcca 477

○ <210> 9321

<211> 429

<212> DNA

<213> Homo sapiens

<400> 9321

ggagcttttt aaacaaataa acaaacaaaa tagacaaaac ataattttac ccacaagtac 60
ttcagtatgc atttctaaca aattaggatc tttaaaaaaa cataacaaca atatcatatc 120
acacctatca agattaacaa taactcctca atgtcagtc atatccattt aaactctttg 180
taatggagga acatattcct ttaaataa gctttagtaa tcacacaatt taagtggat 240

aaggtgaagg gaangagaga ggcagagtcc tgcccttcac ccttgtecca gaagtttgaa 300
aagtttgaaa gtcgctatit taccctgac agttcgaaag tcgctatit acccctgacc 360
ctccttttgc atcctgagaa acactgaagg tccananaaa aaacggtaaa tgggtcaaggt 420
cataaanca 429

<210> 9322

<211> 455

<212> DNA

<213> Homo sapiens

<400> 9322

gtactgacgt ttggcattgc ctttatitac ttgcaaag acccattctc aggctgaggc 60
gttcagatac ttcattctc tctccgaaaa ntaagcatga cggcccagtg cgggtggctca 120
tacctgtant ccagctact caggaggctg aggaggaan attgcttgag cacagacgtt 180
caaggttaca gtaagctacg atggcaccat tgcgtccag cctgagcaac agagcaagat 240
gttttctcag tgcctttctg cttctccagg aagttgtacc cgtcagcacc tgctgagggc 300
tttgttgacc aaaccctgac aggtaaaaaa attcctgtag aataaancca gaccagctgg 360
ctttgaanan aaacccccag ttggggctgc gtttgcctcc tctccttttc tatgaagacc 420
gaagctttgt cccttgatcg tcaaccgtga natgc 455

<210> 9323

<211> 492

<212> DNA

<213> Homo sapiens

<400> 9323

gggntttgaa aacaacactt ttattitaca caaatagatg gtagtgcaac agcactcgtg 60
ggatgtttac ganaaataaa aatactagta ttctggcatc cnttgggtnc aggccnttt 120
atatttatag atgtctacaa tgactcataa aagtnaatc nataaaggct attaatttgt 180

atttcaacct gaatttgaga aaccaatgaa nattaatcat ttatttgga tctagatcca 240
 tatactgaa aactgaagta taaagtttct catttccatt taccttgta acaaacatat 300
 cccaaacatt tcagcatctg taaaaggta tctatttagc atctgtaata agtgatttat 360

agttatatat gcnaaataaa ggttgacaca gctggatcct anaaactcnn attttatnaa 420
 tttaaaataa attaanTTTT tatgccnaa aacaaaaccg gatcttgat tttttttaan 480
 ttttgaaatc cc 492

<210> 9324

<211> 497

<212> DNA

<213> Homo sapiens

<400> 9324

atanacataa tttttattaa tatggtatcc ctgaaanaca nattaggtgt aaacattatt 60
 ttgctttaca gaaagggaaa tggaggcagg ttaacttaca anacatctgg aaccagaata 120
 tctgttgata ccacaaccaa tgcttttccc acganactat acatagatat actaaagaca 180
 atactttttt tttttttgac attacagcac acttcctaaa tcatctgaaa tcctgaggca 240
 ctgcttcana ctgggtgttc ttgtagcttc ctgtctgctt aggcaacata acanaagtac 300
 catcttcct taattcctaa taaatattan atttttttgt nctaagattc aacagcagaa 360
 tcctaattaa tctctaacac aacaagctat gaattataga atactatate ttcctactgc 420
 tctccctgat cttattccnc ccanaattc taattgaatg tnaaaagggt cntntccnat 480
 ccttgccac ttggcgt 497

<210> 9325

<211> 457

<212> DNA

<213> Homo sapiens

<400> 9325

| | |
|---|-----|
| cagaatgaaa ctaacaaggg tagtaaatat ctatgantac agtaacaaaa ctatgtat | 60 |
| ccatgggcac aatacat | 120 |
| gaatgattaa nataaagaaa tagatcagta atctctctac ttcactaana tgagggaagg | 180 |
| <hr/> | |
| gaaaagtgt atgtacaggt caaaataatg ctgaaatgca naatgctttt canaantatg | 240 |
| ccattagacc ttcaaatgtg ctgtaggtgc taatagtact tgtctaaca gaaaatattg | 300 |
| agtcattgtc ttttgaagg tttaaactgt tttatgtccc aaacacatcc ctaccaggcg | 360 |
| tantaagant aatccattaa tgttttcnnt gattaaaagt tgaaattata naatattgtg | 420 |
| gaaatntntt tttgcattaa cttttat | 457 |

<210> 9326

<211> 378

<212> DNA

<213> Homo sapiens

<400> 9326

| | |
|--|-----|
| aatttataaa ggaaagangt ttaattgact cactgttcca catggctggg gaggcctcag | 60 |
| gaaacttaca atcatggcag acagtgaana ngaacaaggc atcttcacaa ggtggcagga | 120 |
| aggagaatga acacaggagg aactatcaaa cttataaaat catcagatct cgtgagaact | 180 |
| atcacaagaa cagcatgggg gaaccgcccc caanatccaa ttacctccac ctgatctctc | 240 |
| ccttgatgtg gggattatag ggattacaat tcnagatgat attttaggtg ggggcacagc | 300 |
| taaaccentat cctacnagga atgactgaaa ctaaagatac taatttcctt tcccttggtt | 360 |
| ggccaagctg tcntcttc | 378 |

<210> 9327

<211> 451

<212> DNA

<213> Homo sapiens

<400> 9327

acataagtgg tctcatctac ataacaaggc cacccttttg ctagccaagg ctaaactgaa 60
 ggantagtgg tggtagacca atgtgaaaat tgtgccctgt tcactacana aacctgagtt 120
 tggttcctaa gtctagttct ncctgtttga tatttgtgtt acttttaaag cgtcagcagt 180

ttgtcccagc tatgatgtgg taataaaaga ttcaaaagga tttcttcac aagttctatg 240
 attaaaagct taattaaaag caaatttctt ttttttttta attgtacttt aagttctggg 300
 gtacatgtgc aaaacatgca ggttacatan gtatacacat gccatggtgg cttgctgcat 360
 ccatcaaccc atgatctaca ttantttatt ctctaatgc catccctctc ctageccccc 420
 accctganag gccnaatgtg tgatgttccc c 451

<210> 9328

<211> 265

<212> DNA

<213> Homo sapiens

<400> 9328

ataaaaccca catgaatcac tgtggcatcc agtttctatt cacaaagaaa aagctccagt 60
 ccatctttta atttttttga aaaattcctg acattacaga actaaactga aatgtnttaa 120
 tattccactc ttacatttcc atgacaaaca gaaaaattca tgagccaaaa aaaaaaaacc 180
 naaaaaaaaa aaaaaccagg ganaagctta taaaactaaa tatggatctc agcatcaaca 240
 gctgaacana aaaaggaatt aaaac 265

<210> 9329

<211> 397

<212> DNA

<213> Homo sapiens

<400> 9329

ccaatttaat gccctttatt ttctgatggg tgccaagtca cttactacat aaactacaac 60
 aataccaagt tttcagctaa ttgtttgctt aaagaatcac agaacttaca ttcaanattt 120

catttacata caaaattcac ttgaggcttt ctggttgaaa ctttcaatag ctttaaaaat 180
 tatattctct aatttttaaa tcacttgcag ttttaagctca tttganaaac ttttttctcc 240
 ttcanagtac cgtattcatt tatcacagca aaaacgcacc tttaaagggtt tgtttttggt 300
 atggttgctg tttgttcccn tatgtttggt tgtatgcntg tttttaagt atgatactga 360
 aggcngaaac aatctgaatt ccatattccg gttcaca 397

<210> 9330

<211> 556

<212> DNA

<213> Homo sapiens

<400> 9330

gaaangngt tttgctcttc ttgcccangc tggantgcc a cggngcgatc ttgntctac 60
 acaacctcca cctcccaggt tcaagtgatt ctctgcctc agccttccaa gtngctggga 120
 ntacaggcat gcgccaacac accccgttaa tttttagtgg ttagtaaana cgggggtttct 180
 ccatattggt caggctggtc tcgaactcca ggtcagggaan atctcagggt atcttcccgt 240
 ctcggcctcc caaagtgtg ggattacagg catganccac tgcgcctgtc cattccttat 300
 tcttaatcag ataanaattg ctggttttca caactaatta ctccacctca aaccaanatg 360
 ccaccacacg cttaagctc aaaatttctc taaatatgcn tccatttnat tgtgtttttc 420
 cactatctcc aaggaanaaa aaatctgaat tnccatttta atccccncct tcnccttaa 480
 ttgggaaaaa atacnataac tattcctttc ctnttaactt caaatctttc cccggttccc 540
 tccaatcttc ccnna 556

<210> 9331

<211> 336

<212> DNA

<213> Homo sapiens

<400> 9331

cagttaaaat gtagtttatac taaatctcaa aatgtttaat aaaaacaagt atcttctcca 60
 tttacactt tgctttctaa ctgtacagta aattgcattg tagagagtac acttctgtct 120
 tcaaactgta tcttctttgg atggaattaa gatgtaactg tatagtttta agataaataa 180

atgggaagtt ggtccaacta agatgacagc agatatatta catgcaggat ttaatatttt 240
 ctaattctct cttttaaaaa aaangatgct gttggattgg gaaaaaaaaa agtctaaaaa 300
 gaaccanat tcaatatata aaaatgtccc ncaata 336

<210> 9332

<211> 446

<212> DNA

<213> Homo sapiens

<400> 9332

gatttttact ggattttatg gtttttgaaa agctattttc cagtgccatg gttttgtaat 60
 cctacttttc aactttctgt tagagctcta agttatttta cttagtacga ggtagtgttt 120
 ctggcatcaa aagataaatt ttaaattcct gctttttcaa atttgcgtat gatttttgca 180
 tatgatttgt ttcagtgggt tcttgggtgtg ctttattttg ttgcaggagagg aggctgaagg 240
 ctgggaaaaa aaaggaggct gaactgggaa gataataact ggtgacaata natgtgagtt 300
 aaactttagg aaaaaggatt cccttttttt aaaaaaaatc aatacctcaa aancagcttt 360
 gggacaagaa aacccaaagt ggnctgcttt tcccaccag gancctatta tcccattctg 420
 tgccactgaa ttaggaaact gactgt 446

<210> 9333

<211> 341

<212> DNA

<213> Homo sapiens

<400> 9333

ctgtttcatc caattttatt ctttttcata aaagcaatgc agtaaagata aaactaaatg 60

| | |
|--|-----|
| tggaacctgg gaacaaggan tccagangtt gccc aaagan tcgcaaagtg catcaggaaa | 120 |
| cctgaatgtg aanatcgggtg accgaaancc tgatgccagc ctcctcttgg gtcttgactg | 180 |
| aaatcttccc aggttgctat tggattttgc atgttcgaac ctccatcaga ngatagactt | 240 |
| aggcatatgg ttgcccngt gaattgaaaa atctccanan tttatgaatt gaanaatggg | 300 |
| atgaatacca tacacngagc accgaacaaa ccatcnaat c | 341 |

<210> 9334

<211> 468

<212> DNA

<213> Homo sapiens

<400> 9334

| | |
|---|-----|
| ganattttta gtanagatgg gatttcacca tgttggccan actggtttca aactcctgac | 60 |
| ctcaagcgat ccacctgcct cgggctccca aagtgccagg attacaggcg tgagccaccg | 120 |
| cgcccgccca cacaaggcat ttggcatta acgtatcaag tcttaaaaat ctgtatatca | 180 |
| tttgtcccc aaattttatt tctagggatc tgatgcaaag aaatagatca aatatataaa | 240 |
| aagcacgtac cagtacagta ataatatatt aaatgtcaaa acattgaaaa caaattatgc | 300 |
| cacataaaca tagtgggcca ctgcacattt atttaaaaaa aaagattata naaacttgga | 360 |
| tataaaaatt tgcagctggg cgttgtggct catgcctgta atcccaccac ttttgaagg | 420 |
| ctnaggcagg cggatcacia agtcnaaaaa aaattnttta ggaaatcc | 468 |

<210> 9335

<211> 499

<212> DNA

<213> Homo sapiens

<400> 9335

| | |
|---|-----|
| atggacaatg aattactatt ttttattaaa ttgtggaatg taatgacaaa atattttttg | 60 |
| aataatctaa caaggccttt tggaaggaca tcattcagta ggtgaatatg cacatatctt | 120 |

| | |
|---|-----|
| tacagtatca atatagacta tcttgagaaa ataggtgtga aacagaactt ctctatcatt | 180 |
| ctacatatag aaaatcagaa ataatctcca agaatgctat tagtgттаат aattacatca | 240 |
| aagttgcagg gtacaaggcc aatattcaaa tgattggттт gttaatacaa accaacagtг | 300 |
| <hr/> | |
| tatgatccaa cnagaagatг acaaatгттт cccacttata ataacatcta aaataactaa | 360 |
| atacttanga ataaacctaa ccaaggaagt gaaatacttg ttgaatgatt agaaagaaag | 420 |
| actctgaaag aaagccnaga aggttaaaat aattnaaaag gccccгттт tcctggatag | 480 |
| gaantctaат ccttctaат | 499 |

<210> 9336

<211> 365

<212> DNA

<213> Homo sapiens

<400> 9336

| | |
|---|-----|
| ggggcagtcc aaaaattgta ttctctacan atggncгттг tgcaaacagt angtctgggt | 60 |
| ttgactattг gaatacacen tgcaagaaac tactcnaaaa ggaaattcca ctтcatgaac | 120 |
| caggaaagтт gcccnatagc ctгtcccatc tgaggгtсct ttacatgatt agatactcaa | 180 |
| tatctcagтт ccacaacгтт atttacanac atgtттtcaa atatttcгtg tnaatggcag | 240 |
| aanggagctг ggagcagtcc ccctгcctcc attactтттт tagctttcac atatгттctт | 300 |
| gactгgtaca naaaatcccn aattттaaat gattccccna ctcanccagt tctnтнаatn | 360 |
| aagcc | 365 |

<210> 9337

<211> 543

<212> DNA

<213> Homo sapiens

<400> 9337

| | |
|--|----|
| cttggtaaaa anaggгtсtс cctctгттгс ccangatггг ttggaactcc tggгtсaag | 60 |
|--|----|

caatcctccc actttggctt cccaaagtgc tganattaca ggcatgancc actatgccc 120
 acctgagcag gatgacttaa acctgatcaa ttctactcca aaacagcaac tatcattaan 180
 tcaggggtgt caaggangac tctgtgaang caaanactaa actgggatgt gtgcgaaant 240
 gggataanaa gcccatccct ancaaactgc aggagtgact ctggcatana attcatggcc 300
 agccctaact aatgtgatgg gtggcangga ngaagcatct gtcantggtt caaacaaaat 360
 cettacaagt tctggggctg gaactctgtg tcctcctgaa tcccatggtt tcenttacct 420
 ttacaaaaaa ctggttttgt tcctgtttgc cnaagggccca aaaccgtttt cctaaattac 480
 cttentaana ataaattacc ccctngnaaa aaaaaaaccc ccaaaaattt ttgggttccc 540
 cnn 543

<210> 9338

<211> 527

<212> DNA

<213> Homo sapiens

<400> 9338

attttgcttt atcattttat tggtaaaatt tatttcaatg caaaacatat acagagacaa 60
 gtacacggtg gtaaattgtat agctcaataa atctaataa ataaacacac caatgttaca 120
 gatcaagaaa gangacatta ctagcttcca gatgcctat catgtggctt cccagtttag 180
 ttccctcaag gataatgaat attctgacta ttaatgtcat agatcagttt tatcttcttt 240
 tgaagtttat gtaagtggaa tcttttctgt ctgggtcaata tcatgtttcc ganattcatc 300
 tatattgttg ccttttagttg gagactgttc attctcatta ctggatggcc atcctgtgaa 360
 tatacttggg cagttaatat ttgatcaatt aatttcttcc ctcaagggtg gctcaaaaagt 420
 tgaacatggg ctccctacac cgccctgatt tcaatctgaa atccncagga anaatcccc 480
 ttactctaata gacttgcttt gaatttcna aacccccaaa tttggat 527

<210> 9339

<211> 421

<212> DNA

<213> Homo sapiens

<400> 9339

| | |
|---|-----|
| gtgaaaatgt tcagccattt tattgttctg taaaggaaca tcattctgggt caaaaatgaa | 60 |
| ttctataaat caaagaatat tctacacctt gggaaaagaa aatcagcagt aacatttctca | 120 |
| ctgaatattg taaattacat ttttcttcat aaaagggtaca tactattctg cacttttcca | 180 |
| ccaaaagcag tgggtgtgta tgcttggtat ataaaaaaaaa gttatatacct gtggcaggaa | 240 |
| aaaccctttc tctttcactt ttactaaaca actggagaaa atgttcaagt ctgtataaag | 300 |
| ttgcctataa gctggaaagt gaacttggtc aatctccatt tacatttttag tgcatttttt | 360 |
| gacaattgtc acatttttaa caaaagtnag aaaatgcnta tancctaaa gaatttttcc | 420 |
| t | 421 |

<210> 9340

<211> 579

<212> DNA

<213> Homo. sapiens

<400> 9340

| | |
|--|-----|
| agtaaacaac ctaatctttt atttgcccaa ggccggctgt tgcaancact gaggccccaa | 60 |
| nacttccana aaggaaaggg angangggca aacactgtgc ctaccangtg ctgcctgccc | 120 |
| cgtcctgctt cctgcaggan gtgggaaggg anaaaaaacg gacattcgcg ccatcaagta | 180 |
| tctccccagt tttcanccac tatattcagt tgtggaggan gaaactgagg cacacgcac | 240 |
| ccccaggct tctacttgct agtccaaggt ttaacttact ccctcccctc atctctaccc | 300 |
| ccagcaaaat gagctgtaag cagcctgggg agggctctcag gagcccatct ggtggcctgt | 360 |
| ggagcggggc aggccancca aggtcaaagg ctaagggttg ggggancaag aagggtgtgg | 420 |
| ctggaagaac actgctggcg gtggggggan tcgcactcaa taagggaccc anctgggggt | 480 |
| ccatactgat acattgggga caggcaaaac ctcnctttca aanaggaaat taaggtnaaa | 540 |
| accncntct ttgttagaag ggctcctcca ctatcngtn | 579 |

<210> 9341

<211> 407

<212> DNA

<213> Homo sapiens

<400> 9341

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gtaagccaaa tcaagtcatt ttttaatggc acataagcta gcaagtatit acattattaa 60
atggttggag aaaacagtat ttcacgacac atgaaaatta cacaaaactc aagtttcagt 120
ttgcagaaat aaagctctat tgaaacacag ccacctgcat tccttcacat agtaattacc 180
tggtctgcttt cgtgctacaa cagctgagtt cagcagcagc aacagagact ataaaagccc 240
acaaagcttg aactattttac tgcacgggcc tttccagaaa aaaatttgat gacacctggt 300
ataggacag anaatagctt gacggttgcc acggtaaaag gtggggaang agctgaccac 360
agggaattta ctggagggtg atatanctgt taattgtggt ggtggtg 407

```

<210> 9342

<211> 492

<212> DNA

<213> Homo sapiens

<400> 9342

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acaggcttat tactggcctc ctctcttca tctgaagant catcgagctc ccattcatca 60
tctatgtcca tttcaaatac tctcacatga cgaanatttg agcttaacac acaggacact 120
tttcgaaaac cattcccagc aacatactgt gctttcatac tttccagtaa tctccagtgc 180
ttctcgaaat gcatggtacg ggtgggaata gcactacact gtacatctag ccttgtagaa 240
taagtcccag tgaactgata ttctgcagaa tcttcactgt tatatactaa agacaaaggc 300
agctggacca agagtctatc tcttccttca cgtcctacag tgtctttaan aactactgtt 360
acagtttcat catcataaaa ctgtgcatct aaacaactgt agatgcttct tctgactttt 420
tctgttgtgg catatgttaa gctccaaatt taataacaat tantccatta ctencagatt 480
gaaaaaatat cn 492

```

<210> 9343

<211> 469

<212> DNA

<213> Homo sapiens

<400> 9343

ggttgtttcc tctaactttg tattttcaaa tactctatct tcaagctcac taattcctct 60
tctgcttgat caattctcct attaaaagac tctgatgaat tcttcagtat gccaaattcc 120
anaatttctg ctttattcat tttagttatt tcaatctcta ctaaatttgt ctgatanaat 180
tctgaattcc ttcttttgtg tatcttgatt tttctttgag tctcctcaaa acagctatct 240
tgaattctct gtctgaaagg tcacatatcc gtttctccan gattggctcc tagtgcctta 300
tttagttcat ttggtgaggt catgctttcc tggatggcca tgacacttgt aaatatttgt 360
ctgtgtttgg gcattgaaaa nttaggtatt cattgtantc ttctcagtct gggcttggtt 420
gtacccatcc tccttgggaa ggnttccata tattcaaaag gacttggga 469

<210> 9344

<211> 449

<212> DNA

<213> Homo sapiens

<400> 9344

atataaagaa aatctatgta agttgaggtt cagaaatgca tatatTTTTT acttacaaat 60
attcatctga ccaaattca acataacctt tatggaacac ttaacaattg tttgtTTTTT 120
aaaataacat ttcatcAAA ctgtatataa ttcagtaaag ttttttatac agcaagcaat 180
gcttaaacc tggaatct gtagaaaaga gattttcaca caaataaga aaagaaaaat 240
ctgaggatc cctcacacac acacatccat tcattctggc ccatgtacgt gcacatacac 300
acgcatgcct gtgtgttcac acagacatat tcattctcac tcacaaagt gctgcagcat 360
angcaaaaat tgtaggtcc aaaggaaaat gattgattgt tctaataaag antccgagta 420

gctcagaaaa aaaaacaaaa acnaaaccc

449

<210> 9345

<211> 367

<212> DNA

<213> Homo sapiens

<400> 9345

gacagtctca ctctgttgcc canacaggan tgcagtgggt caatcttggc ccactgcaac 60
ctccacctcc tgggttcagg tgattctcct ccacagcct cccaagtagc tgggattaca 120
ggtgcccgcc atcactcctg gctaattttt ctattttagt aaanatgggt tttgtcatg 180
ttggccacgc tggtttcaaa cccttgacct caggtgattc tctggcctca gcctcccaaa 240
gtccagggat tacagggtgtg agccaccaca cctggcttct tttactctg caaaggcca 300
ggtctggcat acagtttgaa atttgctgcc anantccat tttgcaatcc cnaacttctg 360
gtggaaa 367

<210> 9346

<211> 422

<212> DNA

<213> Homo sapiens

<400> 9346

atttctatgg tagaagcatt tatttcagat atagaaaaat aacactatit cnaaagtcng 60
antnagtnaa cagaagtata ttttttccct gcatacccat cctcaaagt cnaacacacag 120
tttccagcca ttcttacaag gaacaaatgc aaaattaaag tnataactgt caacagagga 180
gctgtattaa agctacgtat caaccttgaa aatcagaaaa cacaagtga tctagtgcag 240
tgattctcaa ctttagtgtg tatcagaatc acttggattg tggaaaaagc accttcagag 300
agctgaagga aaatcatcag gtcnagcaag cccttggctc cagaataaat atccaagaga 360
ctaaagatac gtgctttgtt cctcnnggaa gaaggnagga caaaatatnc taccatatnn 420

aa

422

<210> 9347

<211> 439

<212> DNA

<213> Homo sapiens

<400> 9347

atccttctat agtcctgtca agtttaatgg aagtgggttt aacctgatta caacactaac 60
accagtatca ctgatctgat atttacaaaa atttgtatit ttcaataaat taaagtcaat 120
gcaacaccca tgcaagctag agtgctagct gtttggtgaa caaggacgtg acatcagaac 180
aagaagtcta taagtcccaa actttacaag tgtgatcatt ttcaaactgc atccattcct 240
cgcatngaana atgtgaaacc caaacccatn cctctttgtg tgtgggtttg tgatcttgcc 300
atttcatact gagcatctaa atttcgaaat acttcttcct gctgcttcan aatcttggtta 360
ctttcttcat caactgaagc tacatccage ttcatcttca ctcttaatac ccatcaattn 420
cctaaatttg anattgggg 439

<210> 9348

<211> 283

<212> DNA

<213> Homo sapiens

<400> 9348

ccatttatat cacactttta gtgcacttgg ggtagtggat ctaacatgtc tatttaacat 60
tgctggagtt cccttaataa accctgttaa ggtataaagt aaaacatgca aagcattttt 120
aattttacia atccctataa aaacgancta aaagagagcc aaaatgactg gaggtaaaaa 180
tgtaacttaa acgantgata tgacattaac tataatttct gaaatctgga aaaatccctc 240
aaaattgggg taaaaacttc cagtgcana gtagattttg ana 283

<210> 9349

<211> 366

<212> DNA

<213> Homo sapiens

<400> 9349

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aagetgaaaa gacgctcatg anaccaaggg ganggcaggt nccaaaggca agggctgggc   60
cctgancttc tggcttcctg gtgcctgta catantaggt gttgactgga ttgaggacaa  120
aggaaaatan aattttcnaa gggattaggg ctaanactcn aaaaaaaact gcccnaggtg  180
gattcttgac tgtgccaaan ctgaccgagg tctgtccaan acctaaggat gctacaaggt  240
gttcatattg ancatggggt gcccgagggt gtctgtcaat cnaaaaaaaaa aggctgtnac  300
tggaagaaa attataantt tnggaaaata ccaaatingga acnggggaaa gggactgcca  360
tntccc                                           366

```

<210> 9350

<211> 535

<212> DNA

<213> Homo sapiens

<400> 9350

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atttnnngag atggagtctc actctgtcat ccangctgga ntgcagtgat gcgatctcgg   60
ctcactgcaa cctctgcctc ccgggttcaa gcaattctcc cgctcaggc tccaagtag  120
ctgggattac aggcatgcgc caccacgtcc gggtaat tttt tgaatttttt agtatanacg  180
gggtttcacc atgttgcca ggctgggtctc aaactcctga cctcaagcga tctgcctgcc  240
tcggccccac agantgctgg gactacaggc atgagccact gagcccggct tgcagtgtgc  300
ttttagacaa cagaacaaac agatgatatg ggaaaagggc tcggattcac ctggcttcaa  360
atcctgggtgc tgacacccat aactctgtng ccttggtcac ncctcttata ctctctgaaa  420
ctcagttctt tcttccaaac atngaagana aacctccctg aagggttgc tctnaagctt  480
aaataataaa taaaagtctt ggcncctgggg ctnantnta cttggtgccc caaca      535

```

<210> 9351

<211> 356

<212> DNA

<213> Homo sapiens

<400> 9351

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gacctggtgc caaaatgaaa gctttaatga gtgttactcc tagacagtca cgtctcagct   60
tctgccagcc tccactgtcc cagctctctt agctggccga caggggagct agttgctgag  120
gggtagggat ctggagtcta aagagcagag ccaggcaaaa ggaggtacag gaagcccccg  180
atgggggctg ggctcccgga gtgtggtgct ggggggtcat gggcttcagg ccggccccctc  240
ttcaggcatt cctagcaaag ccaccagggg ctccanggt gtgggggtcc catgggcaca  300
nggtgggtgc tncatgcttg cgcaagtcgc tggcactcaa naangccttg gganna      356

```

<210> 9352

<211> 563

<212> DNA

<213> Homo sapiens

<400> 9352

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gggggntgat acagaattta ttgaattana tttttctatt tacaactgaa atnacatcta   60
catactatth tgctantcta catgggtnc aattttccaa caagcttaan anttaccatg  120
aatgggntca ttcatacaaa aacacactca cactaattct tttaaaacag tagtgcatac  180
attatactcc tcctataaag ccaactttga ttaaaaacca ctantttcaa agctcagtct  240
ctgattttga anatgaacca agatatacnc catatgatcc tacaatctat tttagtcatt  300
ttgtncagct gctatcttat tggactacag taaatatttt ttaaaaggac accaatgang  360
ggcaccatct ggtgttnacc ttaaccanaa agctggtttc ctctcctcc ccccaaaaac  420
tttgggcaan aattctccnc tgtnaaaant gaaaggactg gtgactttcc gcatcactct  480
gtttcccttg gaagttacaa aaacagggcn tgttcccctt aatcnacccc ctactnaanc  540

```


ccantggtcc taaattnaan ttc

563

<210> 9353

<211> 372

<212> DNA

<213> Homo sapiens

<400> 9353

aagggaagg atcttgctat gttgccagg ctggtctcaa actcctcagc tcaagcaatc 60
tgcccacccc agcctctgaa agtgctggga ttacaggcat gagccaccat gtccagcaca 120
ctttaatatt cactatgggc cctcaaaagg aaatgtttgt ggggccacca aaagcaaagt 180
tctcttgaa cttantcacct ggggggacaa gtgtgggaaa gtgcacctgt gttcccatga 240
naccactca agaggagcag aaatcctgtt ttgctatttc ctttaattgct actaaggctg 300
ggattttttc atgtttattg gccctctac atttttttct ttaaaaaaat tcncnaaacn 360
tgtttatatt tg 372

<210> 9354

<211> 442

<212> DNA

<213> Homo sapiens

<400> 9354

gtaaanacag ggTTTTGCCA tgttgccac cctggtcttg aattcctggt ttcaagcgat 60
ccaccacat gggcctccca aagtgtggt attccanaag tgagccactg cacctgacct 120
gggcctattc ttgaccttc tttttgtgtc tcagtttctg tatctgtaaa atggaaataa 180
caatacctac ctgtaaggt tgtgaanaaa attaaaatga gaatacctat aaagcactta 240
aataaaataa ggcctagtac atagtatata ctctataaat ggcatctgct atgattataa 300
ctattgttat taatatctaa tgttctctat tattctccaa taaaatcat ttgatgttat 360
tttggccgt ttcctgcatg atctcttctt gcttattccc cccctaccag nanttcattc 420

ttenatthtc acctcaacta ca

442

<210> 9355

<211> 613

<212> DNA

<213> Homo sapiens

<400> 9355

acaatgccta gcagaatgtc ttatatgtca ataaatattt gccttgtag aagtaatttg 60
 tgctttgtta taagtaatta aaaacaagct tttatgcact ctttttaa at tcacttaagc 120
 tacaccgtag tatectcaaa aaaggctttg aaattaanat tactgtccac atattggatt 180
 agttattgat gaataagcaa atcagcccct ttcaaaagan atcagttagt cctattctac 240
 gtggtttcta gtgaaatagt ccagcaaaat catataatac tgtgtcaa ac tttttctgct 300
 cttctttttt taaaaaccaa acaacagacc ttcatcttag ggaacagcag ttctacatct 360
 ttaccccct cgggtaggta aaagtgtcaa tanagaagtt actactatat tcccctccca 420
 aatttttaga angagcagta aaaataaggt ttgatgaaa ttcccataaa atatttaact 480
 cattattgtc tcatgtcana aacaaaaata aggccatttc ntgttataac atgaatataa 540
 taacctcccc ttgttccaaa taaccaaatg gtaagttccc tctttcccc ttcttaagaa 600
 gtttncntt ttt 613

<210> 9356

<211> 301

<212> DNA

<213> Homo sapiens

<400> 9356

gggaatgant tgtttttatt ttacagtga tcacctatca aactgttctg ctgtgttata 60
 gttcccaa ac tgganttcaa cagtcttaga aattcagtg tctaagaact gcagttcttg 120
 antccaacct cctgggaaaa gtgaagtata aaactctggc tccagctgct tgttccgta 180

cttgttgaca atgtcgggtga ttttctgttt ccggcggaca tggggggggac tgtangaatc 240
actttccagt ctctttcttc tacaaatgtt aattacagtc tgcctcacca naaagccaan 300
a 301

<210> 9357

<211> 578

<212> DNA

<213> Homo sapiens

<400> 9357

gagatggggt ctggcttcgt caccagact gggaatgcaa tgggancaat catagctcac 60
tgcagantca aactcctggt cttaananac cticcttctc atcctcctga gtatctggga 120
ctatgggtgc atgccacat atctaagttt taaaaattaa tttgtacta aagganggtc 180
ttgctatgtt gctgaggccg atgttaatat ttataaaaag aaaaacatga cacaacagtt 240
caaactggtg cttttttgca cctatcctgc actataaaaa taaaaactta aacatagcag 300
ttacatggca ttccatttcc ttttgacatc acaatacatt aaataggatc ttttcaaaaa 360
gtaagacagt ctattttcct atttcgtaaa aataccacag gctggaattc taaacagatt 420
tttttttttt ccttaaggga tctttattcc cncncncccc taaaaaagac ctgaaaacag 480
gtcctcctta nccatcctac tttaaaattt ctcccaatt ntttngggg aaaccggaaa 540
aaatccnaaa ccttggtcca tttttttaa ntganggn 578

<210> 9358

<211> 504

<212> DNA

<213> Homo sapiens

<400> 9358

gcttttgttt tgananagga ntcttggtat gtccccangc tggaatgcaa tgggtcgatc 60
tcggntcact gcaagctccg cctcccggt tcatgccatt ctctgcctc agcctcccg 120

| | |
|---|-----|
| ntaactggga ttacaggcgc ccgccaccac gcccggntaa ctttttgtat ttttagtaaa | 180 |
| aacgggggttt caccgtgtta gccangatgg tctccatctc ctgacctcgt gatccgaatt | 240 |
| aggcactaaa ttttaagcat aacatganca ctctccaggg tgagaancca tcaaaatcac | 300 |
| <hr/> | |
| gtttgcaagg ttgtctgcga acctccacgg gaaaaancaa ccaggccaag tacctgacat | 360 |
| tacatgggtg acacctggct ccctgcagct gctgccaaagc aangctgtna aaaggctcctg | 420 |
| ccccnctat aaagctgttg gticctgcct gccacnccac tcttgggttg tgggttntna | 480 |
| aattgggaaa aaaccccnaa atna | 504 |

<210> 9359

<211> 312

<212> DNA

<213> Homo sapiens

<400> 9359

| | |
|---|-----|
| agtanagacg ggggtgtcact gtgttggcca gganggtctc gatctcctga ccttgtgac | 60 |
| tgcccacctc ggcctcccaa agtgctggga ttacaggcgt gaaccaccgc acccagccga | 120 |
| atgtinctaa cactactgaa atgtgcactt anaaatgatt canatggtaa attttgttat | 180 |
| acgtatttta ccataagttt aaaaaaagga aaaaaaaggg agcagggaan gccacatctt | 240 |
| tccacttggt gtccaactag tgcctatgtg gggaggcact ggtgtgggcc annaaaatcc | 300 |
| tgagggccct ca | 312 |

<210> 9360

<211> 409

<212> DNA

<213> Homo sapiens

<400> 9360

| | |
|--|-----|
| aattcnatgg tataacaaaa tcagttccag gtttttttct gaacaaatga tcctttggtc | 60 |
| tttcccgtgg catgctccta aaacaactaa aacaaccctc tacgtctaata cagtcaccta | 120 |

anatatcgag tggcaagtct ttcacatttg ctgcttataa ttcctgaatg gtccatattg 180
 agtattttca tttctgggta agggaaaaag cattttgggc cattaattca cccgctcgct 240
 cctggaggac gttaaccaat tctgctatca caaagacgtg agtggcatca atgtcttgca 300
 tgatgaactt cncaggcttc catttttggt cactttggga tggttttcct gtcgaactgc 360
 gtggaaaagc angaagcaca ctgtccactg taggggtcct ggtccanca 409

<210> 9361

<211> 502

<212> DNA

<213> Homo sapiens

<400> 9361

gtaggccatc agaggtagaa ggtggtaaaa acagagttgc cactctcggt gtggccacgt 60
 gagcacgtcc cacttaagta acagggtgtc cctcaggta gcttgtgata aaacccaagt 120
 caaacaaggc tgaatcctgg gtgttttatg tcctaaggat ctgaaaagtg ttcacggcca 180
 gccctgaccc tcaagacctc aaatgggtcat ctaagcagta acgtaaattg gtgtgtaaac 240
 ttgtccttgg gccattgctg tggaagtggg actggcgaaa gtacagcctt gccatgcagg 300
 aactaatgtc tttctaggca tttaaaataa gggggaatgt gttgattact ccgacaggca 360
 acccaactgc agtggctaaa tgcccaaggc tgacaaattc tgcatttat cactcccgtc 420
 aagtggcatg tgaatactgt cnncccaaaa gaattgagaa acaacttgc ttccaaaact 480
 ctncatctcn ncaaaatctn ga 502

<210> 9362

<211> 448

<212> DNA

<213> Homo sapiens

<400> 9362

actgtttcna aagtattcna taccatcnaa gggaaaaaaa cattaaaata atctccataa 60

| | |
|---|-----|
| ttgtgaaatc tgacaggnaac aggtcttgaa atggactgac aaanacttgc aggggggncca | 120 |
| cactgaccaa agttcaaaaa catttcatat ttccatttta agacctcttt aacgaaagtg | 180 |
| tctganacag actgtgatga caaaagaatg ttacttgag aggaanatgg aaaatatttg | 240 |
| <hr/> | |
| ctttcacna atggaacttt gcaaccttgc ctgttggaat tttcggaga ctgaggatga | 300 |
| anaacattgc acgaattctt cntttacca actggcttct gancatgan gggaactggc | 360 |
| tgtggtncct tcnaaatcna ctgtatcccc ttgacttat tttttaaaaa accgtgaaag | 420 |
| tgctgaaaaa tttcccnana tttanaaa | 448 |

<210> 9363

<211> 583

<212> DNA

<213> Homo sapiens

<400> 9363

| | |
|---|-----|
| canaanagg tctcactctg tcaccaggc tggantccag tggcacnate tcagctcacg | 60 |
| gtgactctgc ctctgggtt caagcnatct tccagcctca gtctccaag tagctgggac | 120 |
| acaggtgcat gccaccacac ccagctaatt ttgtatcttt ttagggana nggttttgcc | 180 |
| atgttgccca agctggtctc gaattcctga gctcaaagca atccactanc cttggcctcc | 240 |
| caaagtgtg ggtgtgagcc accttgccca gccacaaaag ggatttccca gttgcctcat | 300 |
| tgcggcagtt gccgggagct cccccaaaa aaacaggga ctggggaact gtgggcatgg | 360 |
| gtaggantga aaccagtctg aatcacctt tggaaatctg atcgtgttcc ctactcaac | 420 |
| aaatattcct gttttccggt nggcaaaaa naggtcccc ccggaaaaa acaaaagaat | 480 |
| tttgcatctt ctgtcaatca acaaaacctg gggaantccc nccccnggaa gcaggaaaag | 540 |
| ccttaaaaac tncggcgagg naattccggg ttnaaaccn aag | 583 |

<210> 9364

<211> 352

<212> DNA

<213> Homo sapiens

<400> 9364

| | |
|--|-----|
| cttcagcagt gcgggggtcc ttaaagtgtg attcaagtcg aataaacttt tctacgtctt | 60 |
| tcaacctctt aggantccca tctatggatg gggaatggga tctcttaggt gtaacagtct | 120 |
| tagttatatt tgacattcca ttcanatgcg gttgtccctg ggcagggttg tgagggtgtg | 180 |
| tgattctagg aatgacattt cgtcctacta cggtaggaat ggtacacaca gtgggggggtg | 240 |
| atacagtttt tactgtaaan tcaacttttg cgccaatcac tggaatggaa agtccttggg | 300 |
| ctggtggtnc actcagtggc ttctcccaat tacacancag gtcagcact at | 352 |

<210> 9365

<211> 410

<212> DNA

<213> Homo sapiens

<400> 9365

| | |
|--|-----|
| gacagaagta aaaatattta ttttatctta aaaatctggt cccgcaaaaa ggncaacact | 60 |
| tttttcagtt cacggtcttg acctttcaaa gaanaaatct ttcaactgag aggtgagtta | 120 |
| ataaaaaggaa tgtcagaggt gctttcagat ttcttataaa ccagtaaacc aagcaaccct | 180 |
| ggacttctag ttactgagc tccttcttct agccattcac agttcctgaa ggagaaaaana | 240 |
| agttgtttgc agataaggca ctttagaaac caccaaagag aaaaccaag tctgccagga | 300 |
| gctgcactgt gaacatgtga gccgagaggg ccaccnccan acagantgcc aactcccaca | 360 |
| gctccatgac aacagcatcc accttctgc cccaacactg ttccgtctgg | 410 |

<210> 9366

<211> 274

<212> DNA

<213> Homo sapiens

<400> 9366

aacaatcaca agtcattgct tttattcaga cgtaggggca aaacaacagg gattctacat 60
 ctggctaatt ttttcaaagt ccttttgtcc aactatctat taaagaaaaa aagttgactt 120
 acttctgagg tgagggatcc agtgcggcag ctaaaacttc ccctgccctc tgccacctgt 180
 gtnatggcca catgcttgga tgttgaaaac agcaaagatt agcaccttcc attccctggg 240
 ggccagcaaa nacttttctt ccnaatcaca tgca 274

<210> 9367

<211> 357

<212> DNA

<213> Homo sapiens

<400> 9367

gcatgaggnc aatactgtta ttgttcacat tttacagagc aagaaacaga ggcagcgagg 60
 cattaaaaca cctgtctagg gtcacagggt gtncagcttt cananccagg aatcataacc 120
 aggtctgtct tgttctaaag ctgtcctttt gtaactcctg cacattaaac aaataatcac 180
 aactaatttc ttaaataatt acaaaaaanc caagtgtttt gaantataaa taciaagggc 240
 taccgaagca taaaatggga attggaaaaa tacctaccnc ncccaaaatt attgtnaaaa 300
 ttaaaaaanca ctenttggtg cactttgtnt atcaaaaaaa anctttaaaa atgttca 357

<210> 9368

<211> 369

<212> DNA

<213> Homo sapiens

<400> 9368

gaggttggtg ggaaaaatth aatcagctac agatatthta agtaccaaag gctgcctctg 60
 gagggaaaaag aaaactaccc ctctggttct ggttgacaga aatatgtntt atcagattcc 120
 ctgtgaggct ttacatccca tgtttgctgg agaacagagg gattctctaa gagtgtagtg 180
 atttcttcag atagttcctt catcttgctt tcaattatth cagangcctc acaggcagtc 240

cccattattc ccagtcattgt attcatttca gcttatttcc aactcagcta tccttggctc 300
 tgaaaagctg tcatcactgg catcactgta tctatcactg ggaaaanant ttgcaaccct 360
 gttgcaant 369

<210> 9369

<211> 297

<212> DNA

<213> Homo sapiens

○ <400> 9369

gacattttta aagccatttt aatgggaaat tacatcctac atacaggtgt tattccaaga 60
 agtttcattc cattggctan gacagaacgg acagctttga aaagatgaag tctggcccca 120
 gccacttcag gaggactatc ttttatttgt agtgttttgt gtgccacagc tgcaagatga 180
 cttaaagtta gaaggtaact gacgatatgc ctgggttgaa agtcctgana tgatttataa 240
 agcacctcgt cgaacctgan aagatgctga anaattgaaa cagactgtgg ctcttgt 297

<210> 9370

<211> 456

○ <212> DNA

<213> Homo sapiens

<400> 9370

ggagaaaaat tcttctttat ttaaaaatac cagtaatact gacagacttc aaaagcaatt 60
 cacgcttcca gaatacaaag tacttaatac atattttcaa acctgtttgc atttcaaaca 120
 aagttagcgt ttttgtaaata caaatttgat aaccgcagta aaaatatttt ccagctttat 180
 tatttaagga gctgcacagc ctttaaagtg gggaccagga ngcaggcaga ggcaganaga 240
 ctgaatgcac ccaggactgc gcagcagtct acagcaacat gtcccacaac tttggtgctg 300
 gaaacacaag ttatgcacaa gacagctgcc ctccngtgtc aggatcctgt gaaacagcat 360
 atcaaaagat cgcngcttc ttataattta cacactttcc ntaagaatg gctttttgaa 420

aaaattcttt aaaaatgccn ttttaattta atttcc

456

<210> 9371

<211> 395

<212> DNA

<213> Homo sapiens

<400> 9371

aagtttgcaa atcttttata tttccagctg ttgagacagt atttttgagg gntgatgtta 60
cctctagcgg ngaaaccaga nccagctatt aagcagccag aaagctacag taattgaata 120
catgaccatt tctcttttag cacgttcttt gttctctct tccagaagtt gtagacgtct 180
atttagtttg attatctgtc gtcttagtga agctgcatct acaacagtca ggatcatctga 240
cgttccttca atggttgtat ctatatttga aatgccatac ctgacgttgt catgatgagg 300
attagaagtg gcggcagcag acccaccacg caacacaggt ctaaggcagg tttttgcggg 360
agaaagcacn anacagaatc aggaaacaga naagt 395

<210> 9372

<211> 449

<212> DNA

<213> Homo sapiens

<400> 9372

aaaaaaaaa gtctcccatg ttggctaagg ggggtctcga antcctgggg tcaaantgat 60
ccacttggcc ttggnntccc cgaaatggcg gggattaaaa acgtgagcca ctgtacccat 120
gattctttaa gaccttcagc agcccatcat ttcaagatga tatggcttta tcccctgaac 180
taggtatctg acctcaatca tagctgagtc ccagacttcc aatgaacctt acaccccacc 240
actccccag tgatccttca tgttgatgca caatcactca cacaccctcg catgagccca 300
gcacttccca cctcaacca tgctttgatc aactgcagtc tggttccact gtggccatgg 360
agcttggtta gttacatgtt tttccacagg ggctgccctg gcaccccaac tccaattta 420

atgggttctg ggatancaac tngtcctct

449

<210> 9373

<211> 450

<212> DNA

<213> Homo sapiens

<400> 9373

ggtagatagt aggatattatt ttaatttttc aatctgaaaa aaaaaaaaac ccaaaacaaa 60
 aaaaaacaaa ctatcctcat atatatatat acagtgtcaa cattttcaga gcacttacat 120
 taggaaacat tgtttctctt caactgtatg acaatactgt atatgccaca ataaaattta 180
 caaaaacaat cgcatcagca gtcataacaa acatcatgat ttacatttc aatacacaag 240
 aaaaaaata ggcatcttcc cggcacttgg ctcccgctg acggcaacgt ctctccaca 300
 ctttgagaga cctcagcttt taaaaccag cagcggctat ttcagaagtc atgtcctttc 360
 cagatccaaa cttaaataat ganaaatttg ccatttcnaa ataactgaag aattttattcc 420
 tggaatttgg gaaatttaac ccccccaan 450

<210> 9374

<211> 410

<212> DNA

<213> Homo sapiens

<400> 9374

gtaatatgta ttttaatgga gaccataaat ttttcaaaa acccgcttga attagaaaac 60
 ttaaggccat ttatatgaaa taagggtttt aagcacagct gtacagtta ggacagtaag 120
 agtcacaaaa atgtctacat agctttccaa atctcgtatc agtcagtctc tccgtgtgtc 180
 gtgggagctg cctgcgcttc cgtgaacggg aactgagaa atgcttcaat atgtgccacg 240
 ccattccaga aaactccctg canaagcagc tcttcctgca gcactcaacc ttgtgttatt 300
 ttcctggact tcttttatgt ggcagatatt tatgttttca tcatggttga anaanctgct 360

tggaacagg tnagctgcaa ntgcatgcta ctcttganct tgnccanga

410

<210> 9375

<211> 457

<212> DNA

<213> Homo sapiens

<400> 9375

caaacaactg ttggattgta ctttaaagt gtaacacccc anancagctg tncaatgaat 60
gacatagaac tttcttctag acaaagatta ggaaaaaatt agtacattca cgctttcaac 120
agaaatacat tacatatatt ttcagttttg ttttacagtc atagacacaa tcatattgaa 180
actacatatg gataaattgt aagttattaa gtaatgattt tcatttgtat tacatgatga 240
gtttcacaac atgaggatta catatttcaa tatggcatat actatttttg aaccacataa 300
agcaatatag tacaaaataa tgtaacagtt actgtaaagt cagtaatgcc acttggcaaa 360
tacatcaa atgccaccga aaaccagtcc aagcatgaga catgacatct ttcatttcta 420
aactataagc cctttgaaag ganggacntt nggaccc 457

<210> 9376

<211> 560

<212> DNA

<213> Homo sapiens

<400> 9376

cccagancag gtgcgtttat ttttatatgc aaatatatca cccttcaatg catatacaat 60
agttataagg tctgaaaact aagtctatca nananaattg caatcccttg actcatatgt 120
gttcatcctt ccatgganag cctcattatt tcatacaata aacatgccag aaaaggattc 180
tggggaaaaa acctgtatca gctcaaaaagg anaggttttc ttaaactgtc tggggttact 240
gagggtcaaac aanatgactg catctgtttt acaggaaaaa tcaaatccaa agtactaatc 300
gtaacaagga ctaggctagt tctgatgttt actttcctac ctacagctac tctgtaatga 360

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| aacaaataat | attaacaacc | ccagagtga | ctaagtttac | acatgccaaa | tatcacatct | 420 |
| tattcnttat | ctcccacaag | cnatacaaaa | tgttaaactgg | gtatctnaat | taaaggcncc | 480 |
| aattcttaat | tntccanttt | cccagaatat | ttnaaaaaga | aaaaatccat | tcnccttaac | 540 |
| cttattttnc | tactcctaaa | | | | | 560 |

<210> 9377

<211> 469

<212> DNA

<213> Homo sapiens

<400> 9377

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| accacagaaa | aactgtttaa | tatagctctc | taactccttt | aagaactgct | ttaggaattt | 60 |
| ttattttggc | tttaagtgga | atcacttaca | tctanacatc | ctttgaagca | aaaccactta | 120 |
| gaaaccagta | ttttgtgcta | aggaagggaa | gaaatactac | aaaatgttgc | aaaacagaac | 180 |
| aaaaagctta | aaggtttaag | aaatttaaag | gcacagatat | ttcacatcaa | ttcanatttt | 240 |
| atagtatgca | aacatgaaat | aaaccaccgt | gttacaacaa | atatgtgcta | gcgattgggt | 300 |
| agatttcaca | cttctctcca | aatgtnacac | tgtcacattg | catttcctct | ctanatgtat | 360 |
| actgatagca | ctgggaaaga | tgttcagatg | cagggacaat | cccnatgttt | accaaacttc | 420 |
| tgaaagatga | atatnccgta | caaacttagt | tcnnaatatg | aaatgaaaa | | 469 |

<210> 9378

<211> 584

<212> DNA

<213> Homo sapiens

<400> 9378

ggtananatc aggtctcact atgttggtca gcctgatcgc aaactcctaa tctcaagtga 60
tcctcccact ttggcctccc aaagtgctgg gattacaagt gtaagccatc atggcaggtg 120
ttgttttttaa tgtgttaact tgctangcta ccagctgccca tttgttttaaat caaacactaa 180

| | |
|--|-----|
| tctaggtgtt gctatgaagg tattttgtag atgtgattaa aatccataat ctgttgactt | 240 |
| taagtaatgg agattatcct gaataatgtg gatgggcctg attcaattag gtgaaaggtc | 300 |
| ttaaaagtag ggctgaagct tccctgagag caagaaattc cacttataga taactgcttc | 360 |
| <hr/> | |
| agcccatgcc tgaatttccc tgcccttcct gacagcctgc ccccaaaatt tcagacttgc | 420 |
| ctagctagcc cctacaattg cataaactct ctctctatac ttcgtactgg gttctgcttc | 480 |
| tctaagttct gaaccttgan tgatatgcca gcttggttatt tatttgccaa aacaatcctt | 540 |
| ccaaaatcta attaanccct gtctatTTTT tcccatccgt ncct | 584 |

<210> 9379

<211> 498

<212> DNA

<213> Homo sapiens

<400> 9379

| | |
|--|-----|
| gacacagggt ctcactctgt tgtccaaact ggantggant ggtgtgatct tggctcactg | 60 |
| caaccttcac ctccaggatg cacataattc tcgtgctcta ncttcctgag tanctggggc | 120 |
| tatangcaca tgccaccacg cctggataat ttttatTTTT atttttggta aaaacgggggt | 180 |
| ttcaccatgt tggccaggct ggtctcaaac gtctgacctc aagtgttttg cccgcctcag | 240 |
| cctcccaaag tgctgggatt acaggcgtga gccactgtgc caggcctttt tttttttttt | 300 |
| tttttttttg angcagggtc tggctctgtt gcccaanatg gaatacagtg gcacaatctc | 360 |
| agctcactgc aacctctacc tccggggccc aaaccatcct cccacctcag cctcacaant | 420 |
| atctgggant acangcgcac aacatcacac ctggctaatt tttttgantt ttggtaaaaa | 480 |
| nagaattttc atcntntt | 498 |

<210> 9380

<211> 357

<212> DNA

<213> Homo sapiens

<400> 9380

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| ctctctgtct | ctcttttcat | ttcaacggng | angatccttt | cccgagaagt | atcttcagt | 60 |
| tcttagggan | gtcacagcaa | caaggcgaaa | caataattaa | agtncaacag | aaagtagtgc | 120 |
| agttctcgct | gtggaaagaa | cgggccgcaa | gcagctggcc | cgggatgcct | gcacccangt | 180 |
| ctaagctgaa | agacaanggg | tctcggtgtt | cccncancctc | taaaactgtg | gctgggggct | 240 |
| ggctcaagaa | atcatcttca | nggtgatgtg | ggggatncan | gtggaatgcg | gtgangaaaa | 300 |
| aaagaaggcg | ctgggctccc | ggcccctgtc | canaattgac | tcccnanaag | aatccca | 357 |

<210> 9381

<211> 436

<212> DNA

<213> Homo sapiens

<400> 9381

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| aatagtgatt | tatttgtcat | caaagtaca | acttattcta | aatattttca | ttttctgtgt | 60 |
| tctaaataga | aatattaagt | tgcagtaaaa | aganaaaaaa | aggntattta | gcattacaaa | 120 |
| naatcatatt | taaaggctgc | ccaatgtnga | ntctantgac | ctgttcagga | cacctgaaat | 180 |
| ataattaaat | gacaattatc | aaggttttta | caatttataa | ttctaaacca | gangattata | 240 |
| aagaagtgca | aattgacttt | tacattcaac | tttagttaaa | tgaaggcact | cagtattctt | 300 |
| cctgaataat | acattccagt | ttctcacatt | ttatgctttc | atctattcng | aattatttcn | 360 |
| tagttaaata | atctactctt | atnccactg | ttttaacgaa | ttcntaatnt | ttggaaaggc | 420 |
| ctntaaacct | taaccn | | | | | 436 |

<210> 9382

<211> 371

<212> DNA

<213> Homo sapiens

<400> 9382

| | |
|--|-----|
| acaaatactc catgttttac tagatgtgag caaatcatta agcagcaagt ttagtttggc | 60 |
| gacaaaattg taacatctac tacaatatat cticaaaaga aatcattcac aaccacactc | 120 |
| acatgacaag aagacctcac agactcnaaa taaataggaa aaactcatac ataaatactg | 180 |
| <hr/> | |
| tcccgttcca acactganac tctcagtcac gcagaaaaca aattgaggca ttgagtggag | 240 |
| gcaaagggca cttctgcagg aactgaccct caaattaggg attctcaacc cgtcttccta | 300 |
| ngatgagcaa tggatgattt gcttggaggc tccttgttca gaaatatacct ttctccctgt | 360 |
| ccanggtnc a | 371 |

<210> 9383

<211> 505

<212> DNA

<213> Homo sapiens

<400> 9383

| | |
|--|-----|
| agagcttttt cgtccttcc gtccggaaag caaacatcct tcaataaaca tgcaaggcgg | 60 |
| ctgtcctgtg ggacccagga ccagagaggg agctgcagag gacagggctg gacagagggt | 120 |
| agccctgggt cttcaggaac accagccacc cagccatgag agagggaggg gaaggaggca | 180 |
| atgtgggtac caagagtcca gaaggactca ggcctcagcc ccagggtcga gatggagtcc | 240 |
| cagctctcct atccaaaccc actccccgac ccatgggctc ttgggctggg agcatcgctg | 300 |
| catttagtca agtttgagga gtctgaaaaa tattttccag aagataaagt cttgggtcat | 360 |
| cgatgcccc a gcttcacagt ccgtgccctc attctcagcc cctcaccatc cgtgcgccac | 420 |
| ctggggccca gcagccgcct gcggctggac ntctccaggc ctggcatcct ccactgggtg | 480 |
| attctgtccc tgnaagaant nngcn | 505 |

<210> 9384

<211> 580

<212> DNA

<213> Homo sapiens

<400> 9384

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| ccacatgcac | acgtatgttt | attgcaggac | tatttacaat | agcaaaaact | tggaacaac | 60 |
| ccaaatgcc | agcaatgata | nactgggtaa | agaaaatgtg | gcacatacac | accatggaat | 120 |
| actatgcagc | cataaaaaag | aatgagttca | tgtcctttgc | aggacatgg | atgaagctgg | 180 |
| aaaccatcat | tctcagcaaa | ctaacacagg | aacacaaaac | caagcaccac | atgttctcac | 240 |
| tcataagtgg | gagttgaaca | atganatcac | atggacacag | ggagggggaa | atcacacact | 300 |
| gggacctgtc | aggggggttg | gaacaagggg | agggaaaacg | ttaanacaaa | tacctaatgc | 360 |
| atgtgggact | taaaacctaa | atgacaggtt | gataaggtgt | ggcaaaccac | catggcacat | 420 |
| atatacctaa | ntaccaaacc | tgcattgttct | ggacatattc | ccaaanctta | aattaaatta | 480 |
| tttaaaaaaa | aaaaaactgg | tttatnctat | ccaaatttcc | ccnttcnttg | gacncaaaat | 540 |
| cccccggtcc | ttttttaaaa | gggaattggt | tttnaaaaan | | | 580 |

<210> 9385

<211> 576

<212> DNA

<213> Homo sapiens

<400> 9385

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| cctgaaatag | cttttttatta | aacggcaaag | canaactgca | acacaattta | aatgtctgta | 60 |
| aattaggtca | caaaagggat | gcaaaatggt | tgcagtttga | ctattatata | ttcacacagc | 120 |
| taaagtcatt | catcaactct | tacaccaata | cataanatta | ttccatgatt | aaaagcccaa | 180 |
| atctaataac | cttaagctac | attagtggat | ctcttttcat | attataanat | tttagcaata | 240 |
| cttccaatat | tgatttcctt | accaaatgga | atctanaagc | taaattttta | aaaattgtta | 300 |
| aaggatgact | aaaactcttc | aaaccagta | gcagggttta | cagaaaattc | tagaacaagt | 360 |
| gagataaaat | actgagcaag | ataataagta | tacatgtata | actttcccat | tttattcact | 420 |
| attctaatac | taatacacca | ttacggaatt | ttgcagaagt | tgaccactg | ggtacaaatc | 480 |
| acttaaanac | caaactcttt | gttactgttc | tctccaaatt | tgntaacata | agggtgtcna | 540 |
| cttaatcccc | ttcttatatn | tttccnaaa | atttcc | | | 576 |

<210> 9386

<211> 597

<212> DNA

<213> Homo sapiens

<400> 9386

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gtatctatgt aaatatTTTA ttctgcttcc agatagaaca ttgaagTTTA catgttatTT 60
taaagacaat aaacagctaa gctactgaca taaaatatac aataaattTA tgagatataa 120
ggtacagatg agaaaaatct gaaataagtt tTTaacttca tttagcctat taggaacatg 180
aagatgtctg gaattgatgc tggccttggt ctcaagtact ttttcccata tgtattcggt 240
ttatccttcc agaaagcata tcatattaga gtgtctaaga aatcagtga tcactaagtt 300
ttccatctta ccgaagtaca aaacattatt tcaaacttag gccttctgac agaatccaat 360
atctatTTTT atacttactt ttctttctac taagttcttt aataaaatta tgaatcagaa 420
agcaagtaca agacatgctt atttcccaca gaaatatcnt tgaagactta agaagaataa 480
atngccngtn cttctaaaaa atcccaaatt tggacatttg ggaacaatat aattgccata 540
ctaattatat cttttattaa aaaanaactt ttccagcttg gtttccaaac tcttttn 597
```

<210> 9387

<211> 499

<212> DNA

<213> Homo sapiens

<400> 9387

```
agttagtga aatatatatt tgccaccaga attcactggg accccagagc cagcagatgt 60
ggttggaag atcctctgct ctgtcctctg gcctcctgct gcactctgggc catcagttgg 120
actggaggag ctggacgggc acatagtttt cctcagaggc accatcctca tcctccttgg 180
gaggggaagc caggacaggg ttctcganag ttcgagggac acctgccct gacgggtcct 240
cacacagcgt angcagcgtc tgctcccatg aagcccagtt cacctcctcc accctgaaaa 300
caccancgct catcggggct gccatctggc ttaatgccaa cggtcancat cacacctgcc 360
```

cgctgcttct tcctgcacca ccaatagcca ttctccatct ccagnanaaa aatgctttct 420
gcacttccaa atgctccact ntcattggcg aaactnttga cngtctccct catgaagggc 480
aataaacntt ttnaacacc 499

<210> 9388

<211> 530

<212> DNA

<213> Homo sapiens

<400> 9388

actggtcgtc ttggtgtatt ttatttctat ttgcaactgt actatagggc tggccatata 60
gtatttgata agtgaacaaa tgagtgaatg gatgaatgat gagtgaatga atgaatgaat 120
gaatgaatga agtcttcttt gacgtcccct gtccacagtg atcttctgan aacctctgca 180
gcatttcctt tgtgtagcct cctttgggtcc ttagcaacaa cgttgtnca attagttggt 240
tgaatgtgta ctcagcttaa gttctcgact gcagggtgaag caatttgcca gtctaaaacc 300
aggtggggan acattgcttg ggaatcanat cgacctgggt ccaatccan agctaccacc 360
tattacttgt ggcctcaggt aattatctct ctgtaaagct ccatttcctc atatgtcaaa 420
tgaaagttaa taatantgcc tgctccacag ggttggttgt gaaaaataaa tgaaatcatn 480
tntntgaaat gcctaccata nctttgncc ccaggtgctc anttaatacc 530

<210> 9389

<211> 545

<212> DNA

<213> Homo sapiens

<400> 9389

cttgcaaagc actttatata cgtcagcgca ttgactccc aaaacagctc taggaggtag 60
gtgctaaatg aggaaacgaa ggcacaaaaa ggtgaaggct cacctaaagc cacacagctg 120
gaagtggcag aagcanaatg ggaacccggg cagcctgggt cctggccctg ccattcaccc 180

ccctgccatc taaaaaatgc tactggtggc ccacccgant ccactggggg gtgatgcctg 240
 ctgctgaggg ttacatctg tgctctctgg aggttccct tggctactgg aaggcaccct 300
 gccctgnang taagtntctg ggaaagttat tcactcctct ctggccccct catccannaa 360

ccantaaccg gtggtgtggg cacactgtgg tactgtgggc tctgcctgna actctccgtg 420
 gggccacctn aagctggact tcctctnaan ccacttcctt gccactgct cccctcccctc 480
 ccctgcttcc ctnaatccct ccctnaaacc ccattccaaa acctgctctn anaaacctna 540
 actaa 545

<210> 9390

<211> 574

<212> DNA

<213> Homo sapiens

<400> 9390

gcctgtccac ctcatgtttt attgtaaaaa tgttaaaata aattacattt gacatcgttg 60
 ccagtatgta catacagtgt gcgcgatgcc aggacaacca gcaacaacat gggttcattaa 120
 aacatttcac agaaaaatac gangctgctc cttttcaggc ccctgctggg tggcggcctc 180
 tgcaaacggc taaaaaagtg ggggtgtggg cacgtgcccc tcactgtctt cacatgttgg 240
 ggangtgggc tctggccccca ctgccccaca ntantggggc anaaagcaaa aantnaacgg 300
 anctgaacgg ctctgatgac ttgcttcctg cccggcctcc agtcaccgc agtggatgcc 360
 ctttctgct tttgctcacc tcantgtccc cttctccacc tctgcttggg gacatggccc 420
 ttgacatcat ggccttggat aaagtcccca aaaagcccca ttaantttcn gggcnggaag 480
 gcaaaaactaa attcccaatc cttgggaacc tgctctttta ccactggctc tgaaccacaca 540
 acaaatcccn ntntttaaaa accccatttt tttta 574

<210> 9391

<211> 536

<212> DNA

<213> Homo sapiens

<400> 9391

| | |
|---|-----|
| attctatttg ggtcaaatta attttattat gctccatgat gaattgccac cagtgaaca | 60 |
| tcctattcac tatacatttc aaaaaaagaa ttcacatact aaacaaaatt tcagttgtct | 120 |
| gaaaatgaaa tgattgaaag tctttatgaa tctcatacat acaatatgtg gctagctgaa | 180 |
| attgtctatc acgtagcatt tanatataaa aagcctcatg ctagtttggt aaatgcaaag | 240 |
| gctaccanac gaccatttag ctggagaata tacggaaggn tticagacaa cgcacaggta | 300 |
| tagtgctgct cacagtgcag gatggtagan gactgaaaca tgcaacctta caccttactt | 360 |
| ggtaaagcag atttagtctt catgcctgga ctgaactcca cagctgctgt gtttcaccaa | 420 |
| cagtaattta aacttttggt acaacaacca atgtcttttc tccttaanaa aaaaagaata | 480 |
| atttatncc ttggcaatta tatancntt tacnttttta aattgtgctt tnacnc | 536 |

<210> 9392

<211> 516

<212> DNA

<213> Homo sapiens

<400> 9392

| | |
|--|-----|
| aatttttagag aaacgatctt gctctgtcgc ccaagctgga ntgcagtggc ttgatcgtac | 60 |
| ctcactgcag ccctgaactc ctgggctcaa gcagtcctcc tgcctcagcc tcttgagtag | 120 |
| ctggaaccgc aggtatgtnc aggtatgtac cgccacattt ggtcattaaa aaaaaattgt | 180 |
| agagatgggg gtctcactat gttgcccagg ttggtcttga actctcagct tcaagcgacc | 240 |
| cttagcctga gcctcccaaa gtgcgangat tacagtcgtg agcccccag cctggctgcc | 300 |
| atttagtttc tgatgatcat ttctctgcct ttttttttgg gtgcaaaaaa aatggtttta | 360 |
| gtcctcagca tcttacctgc atcaggttca ccaaggggcc ccacccgatg gctccctgcc | 420 |
| tcaaancagt ggaacatcca tctctcccaa gaatggctng tancacctga aacncatgca | 480 |
| aatancctgg gaatttgaaa aaaaccttaa nccna | 516 |

<210> 9393

<211> 569

<212> DNA

<213> Homo sapiens

<400> 9393

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gcaattaatc tagtcccagc acttttattt gtaaagttct caaatcaaaa gtaacaaata   60
attatacatc aggattgtta ggaataccaa ttattttaca actgccacta cgtgttttctt  120
cttctctgac acaagtggna canatccagg cttgctgtgt ttaatacnat tcacttcctt  180
tcgtcgacna ncttctttca tgatgcgctg ttectgaatc tggctatana tanattttgg  240
tagatgtcga tgacnancat tacgttttat atgaggataa tgctgaaatt tctccttcaa  300
tttctggtta taatccttgg ctgctttttc tcgtgatgta agcacacca atttttcaga  360
agcattagct ttccacaggc gaatgttcat ttcattcagat ccacacataa tatacttgct  420
gtcagaagtc cattttacac agataacatg ttgcattctc tttgtatgat atacccccctg  480
cttccacttt tgtctacngg aaaaaatcna ataaaatttt cgaaacttgc cnaaacaac   540
ccctccnnn ngggaaatta tccctcca                                     569
    
```

<210> 9394

<211> 586

<212> DNA

<213> Homo sapiens

<400> 9394

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aaatgacaaa acatatttag aggttttatt taaaaatctc tcactgttca ttatcaaagt   60
tacaagattg cataccaata nacagactgt aaacatagga aattttcggt aaggaaagat  120
gggtttactg taattcaatc ttttcaaaa aattacttgc aagtattga taacanaatt  180
tctcttttac tttcttaatt ctcttgaaaa ttaaaccaat gtttccactt tcatgagcta  240
aagttcaacc atggtcacct taggaaatac ccctgtttat ttgttaatca gaaatacaaa  300
tcgagtggca catacttcca ttttcttctt aggccaaagg tttcagcttc attatatatt  360
acagaanacc ttcagtggtc cggtaagtct ttcatgtcac agctgangtt taatgatggc  420
    
```

agtggaggaa agcanaagtg atgcaaagta agaccanccc agttgcctta tctgacatgg 480
aatcttttcc tgtctgctgc accaacaat tttcctggc aggttgccnc cccaaaccga 540
ttnaacaaaa gggtagcttc cctganaaac ccntttaagg aaaatn 586

<210> 9395

<211> 585

<212> DNA

<213> Homo sapiens

<400> 9395

atttgagaca gaatcttgct ctgttaccca ggctggancca cagttgtgtg atctcagctc 60
actgcaacct ctgcctcccg gattcaagca attctgcctc agcctcccga ntagctggga 120
ctacaggcgc atgccacccat gcccggttaa cttttgtatt ttttagtaa aaatgggggtt 180
ttgccatgtt agccaggctg gtttcaaagt cctgacctca ggtgatccat ccacctcagc 240
ttcccaaagt gctgggatta caggtgtgag ccaccatgcc gggccaactt tttttttttt 300
tttatggaaa canaatctgg ctctgttgcc cangctggaa tncantggca caatcttggc 360
tcattgcaac ctccgccttc caggttaaag caattatcct acctcagcct cccaagtnc 420
gggantacag gtgcacacca ccacatccgg ctaatttttt gtnttttaaat aaaaacgnat 480
ttccccgtgt tgcenggtg gtctccaact cctaaactca cccatccacc cccctggggc 540
ccctcaaatt tttngattac aggetnaanc ccccccccc cccta 585

<210> 9396

<211> 379

<212> DNA

<213> Homo sapiens

<400> 9396

cttanaaaaa ttgactttat ttggttgga agtaccctca tgnaaataa agaacacctg 60
tacagacctg gtttggggga gaactgcaa ngaaactgga ggggcagggc tgtggcccca 120

aaagttggaan gatttggggg gagagtttct tctttggcaa gggagaaggt ggcacaaagc 180
ccaggcanan gggtcagctc ggggtgagac catgactagc agtactactt cccaccctga 240
acanaatcca gggatgctct gtcctggaca cgtcaaaaac tggggttgan gtggccctcg 300

ggtcaaaggt caggaactan aatgctggcc anggtcanaa gtcangangt ccgangctgc 360
tctctgaagt cagggggca 379

<210> 9397

<211> 501

<212> DNA

<213> Homo sapiens

<400> 9397

atgatggtct ttatttaca ctttattggc aaaaaagaaa agggaaactt ttaaacaatt 60
taacacaggg cattgtagct gacctgtca gataaaagaa gttccatttt aaatgtccat 120
ctaattgtcc aaagatacac aatactgaat ctgcatacgc agtttccttt atgaagtaca 180
gtgctcatgt tttaggcagt cttctaaaca tacaataca gaggaaatta aattactcnt 240
taaaaactgt gtcaaatgaa gggatatttt aatataagtt tgttgtttct ggtaatagca 300
catgccc aaa tgaaaaccaa aagatggaaa ggcagataca cttcttactt ggggtggacag 360
ttacaacatc aatcattttc tgcaatgacc attatatatt ccatttatcn tgaactactc 420
tgaacttact atganatggt cccaagtcca aaaaaaaaaa attttnggga caanatncct 480
ttttggccgg naggttacnc c 501

<210> 9398

<211> 594

<212> DNA

<213> Homo sapiens

<400> 9398

cagcaaacct tcagagggca aaaganaatt ttcccttggc ccttacagaa gctttttgcg 60

gncagtcttt aacttgccaa ttttctatca ctatttaata atatgagaga taacccaaac 120
 ctctcatccg gcatttgtct gttgccatca tctaactc tagtgaggga atctttacaa 180
 taatggcaag gaaggagatg atggcacatg aaactctatc ctaccaaaaa ccacagatct 240

tcccttactt tcaccagac atataagaac aggaccaatt gtgaaaatca aaaggagat 300
 tagagataga aaataggagg cgtggcaacc ccacagacct gtgaccttg ttgcagctcc 360
 ctctcttctt acaatcctca aagctcacag tttctcatct ctcccatttt agctccatgt 420
 gtctcacaac agcagccact actcctgggc tgccaagccc tcattgcatt ttgggtccca 480
 gtcattgggt cttgtctaaa atctttgctt ctcatctccc agttatataa ggtcttttcc 540
 ttctnccnct ctaaaaaggc ctggctcttc ctggttaaga atgccngaag tgag 594

<210> 9399

<211> 571

<212> DNA

<213> Homo sapiens

<400> 9399

cacagtacac agcagttatt tatttaaata cttgaaaagg ctgatgatgg aaaaaatagg 60
 tttatcatga nagtttatat tcattanatt tttttatca tttaaaaaat tactgcctct 120
 aggttatcct agcctgatat anaacacttg gtgacacatg cagttactgt aatatactat 180
 aacagacaca gccattatag aatgatttac acttgggatg aaattcaaca gtagtaaggg 240
 tgactcttta tttaaactaa aaacattgggt aatatacaaa tttttttttt atttcattga 300
 aagggtata aaattcaaca tactgacaag gaagcaacat aatcacatan ataacgcctc 360
 tgctaattgc ttttacctaa ctccccctta aaggtagct gcacactcag ctaccaattt 420
 tctaaactgt gcnatngctt caaggctggc ctaccacaac tgactgaaaa aaatttcntn 480
 ttngtaanc t gacactgact tntttttttt taaaaatgga aaaacaatgg ccaattnttc 540
 cttatttcct ataaaaccn aaggatcttc c 571

<210> 9400

<211> 515

<212> DNA

<213> Homo sapiens

<400> 9400

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acatcccaaa caggtctttt tatttaacat aaggccaaag aagctatcag gcgttgctga 60
atactgtcca ctaactgtac aaaatattga ctgcatgcct cgcaaacacc aaaatatccg 120
ctggaatgcc atanaaataa ataacttctg ctataaacac atgaaaacat atcaaactgt 180
tatctcttta aacatatattgt aaataaaaaa attaccagta cttctacaca ataaatatta 240
agaaaccatt gacatagttg aaatgcactc atataaatta acaactttta ttacattagc 300
caaacagaca ttggttaaag aactgcatgt tagtatgcaa aacaaaacaa aacaaaacaa 360
aaaacaaagt naaaaaccac aaaatagaaa caaacaacaa acnacatcac cacagaacat 420
aaaaatttta aaataaaaca ggctccaaat aacctnggct tccanaatta tnttttcctt 480
ttaaanaaaa atttcnccc cntgntcaat gccccg 515

```

<210> 9401

<211> 566

<212> DNA

<213> Homo sapiens

<400> 9401

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gctttattag gtcacacaaa acagaatgaa ttancagaaa aatgtatgtt ataaaacagc 60
atttactact tcaatttaat tttttttact aacaattgtg gacctttttg angacactta 120
tgtatgtttt taataaatta tgtacttatt agtacttaat gagcccttcc tgcctcaata 180
taaaattact aaacttggag aattacagat tttattgtag gccctgatgt tagtcacttt 240
ggagaagcta aaaatttggc caaatgaat gatccaatga tcctttaagt tatctttata 300
tttaatatag tgtgatcctg gactacactg atttaaaaca tgctttttga naaatgtctt 360
antaataggg cagtaatctt cagtgtgttt caaacactac ttgcacaaa atccccttag 420
gttgtnnggt attgggtccc aactaggata anaanacncc gcaaatttgc ttaacacaat 480
gctagccctg cccggccctg ccccaaaatn ncgaattatt aatctgatcc gaaataagcc 540

```

cnaaaaaggc ctttccaaaa tttccn

566

<210> 9402

<211> 576

<212> DNA

<213> Homo sapiens

<400> 9402

aagtgggtgt tgttttaagt cgtaagtttg gagtcatttg ttatacagaa atacattact 60
 gtagcatcat tacatatact tttctctgta acctccgttt tcctgaaaag gaaaaatgtt 120
 cttcaagggt ctccagggtc cactgtagtc tggttcctga cnacttctcc aggttttcca 180
 ttaaacaggt aaagtcttta ttgtttatta atatgtctaa gtactccatg tctatgatcg 240
 tcctcacttt atcaaccctg tctgaagttt caactgcatt tccccctctc aattgggccca 300
 ccatctctta attttctact cttcaagggt tagcataana atggcattta ttcctaaaac 360
 gtctgttctg tcaactctga atttattctt atggccaagt tcgttcgaaa acctccatgc 420
 cccgtgagaa tatttgtgtt tngttttgtt gtttinnngct gttgttgttt tgtttggttt 480
 tgaaanggae tctcactccg tatccaaact ggaatacatg gngcaatctc tgctcatggc 540
 aaccccaact ccangggcaa acaaaccnnc gcctca 576

<210> 9403

<211> 514

<212> DNA

<213> Homo sapiens

<400> 9403

ggttcatgtt ctttattgaa caccttacat gggatatggac agggcctatg ggtggggcaa 60
 ggcancaatn acagcctcag tgaantcatg gcaagtaaca tanccacca tgtcaaangt 120
 tcgaacctgt gggggaaaat catcatcatc catgtggcct gggctccatc ctaacaatcc 180
 ccatcaccac ccaacagtct gtcccctaag gaanccggcc caaggacaac ctaggctcta 240

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| cccancagg | tgaccatggt | ccactgctta | aangcacaag | gtctcttccc | tggtacactg | 300 |
| cactgaangg | tatggggaat | gtggtccttg | caagggtgga | aaaaataaag | ggctctaact | 360 |
| ccctttaatc | tgcaggtgac | cgatgacana | cttgatgaaa | tcggttgtgg | tgctgttacc | 420 |
| ccccatgttt | ccaattcncc | ncctgncaac | tttgattacc | tcctcncnc | atcttcnaaa | 480 |
| attcttgaat | taaaccccna | aataaaaacc | cccc | | | 514 |

<210> 9404

<211> 364

<212> DNA

<213> Homo sapiens

<400> 9404

| | | | | | | |
|------------|-------------|------------|------------|------------|-------------|-----|
| atcatatcat | aatgtctggt | gccattcctt | gcaaccattt | aatgtngttt | ttaaataaat | 60 |
| aaatgaacat | tgctcacaaa | gataagtaac | tgaaatgcca | gcagggacct | tactgcatct | 120 |
| canaaagtga | agtaaacttc | attccagct | ccccaattct | atcaactgtg | agaagctaata | 180 |
| aaactcctca | tgantttctgg | ccatccctan | anacttacat | cctcactgac | tctctgcctt | 240 |
| cagcttttgt | gcatgtgcaa | gcaggttctt | ttttttgtgc | tttattaacc | catgttagga | 300 |
| attgtggccn | ctccactggt | ttccacacac | acacnncnaa | aatctntgcn | cagtaccnt | 360 |
| nggt | | | | | | 364 |

<210> 9405

<211> 378

<212> DNA

<213> Homo sapiens

<400> 9405

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| ggaagcgaac | atttatattac | tttttttccc | cacacaattc | ctaacagttc | aattaaaaat | 60 |
| gagaggtaaa | gcactagggc | tgaacaagtt | aggaaaatta | agcctgaaat | agtctaaaga | 120 |
| taagacatag | tctaaacata | acagaattct | tctaggcttc | tatanatgct | ctcactgtat | 180 |

acacttaggc acttattcat ctttatctgc aagccccatt tctaccaacg gcatatgaac 240
 tggatgctgt tcatcgatcat ataatgtcac tatctgttct ggtgctggag ccatggacac 300
 ancataaant tnttttcctt gaaaacagtc tntentance cacagtgcct ccatgctcca 360

tttgggacaa natggtat 378

<210> 9406

<211> 462

<212> DNA

<213> Homo sapiens

<400> 9406

aaaagaaaa atgtttatta taggcaacaa caccaatggg aactggtatt tgtctacacc 60
 aaggagtgct aatttttcat ctccaatgg cggcctcaac ctgaggcga atccactggc 120
 gaaagatgcc tttctaggaa gcanagctcc ctgactgggc taagatagtt canattgatc 180
 ttaggtcaat ggtaagacct atgtnnttca tgaagtcttg gcttttcggc gctgggtcgc 240
 ccaaagcana atggagacgg atagagtggg ggctcccaana atcccgaana acataancat 300
 gagaacgaac cctggcgcat acctgtntc catggaaaac catcacacaa acacactgcc 360
 aaaaanacctg gaccatccgg tncncaaaat ccattctcag gacacatttc ctgggtcccc 420
 attntnttg cnaaggtcct tttgcccttn aaaaatttgg tt 462

<210> 9407

<211> 578

<212> DNA

<213> Homo sapiens

<400> 9407

cagaaagaaa gaagtcaaatt tttatttgtt tgtanatgac atgaccttct gtaaagaaaa 60
 tcacaaagag tcagccaaaa tgcaactgga actaacaac acattcagtt tatttgcaga 120
 atagaataac agcaccaaaa attagttgaa tttcataca ttaacaataa ataatttta 180

aagaaaatta aaaaccaatt ccatttgcta aagaacttaa agtaagaaat atttaggaat 240
 aaacataaaa agtgaggttt gtaccttgaa atctataaac attgatcaaa atgattaaaa 300
 acatgtataa atagatataa atcccatact gattggaaaa atgaatatcg ctcaatgatt 360

atatactcaa ttgtgattta gattcggtag aatactcnta gaagtctcta tacttttggt 420
 taaagaaaca aaaaacaggc caggcccagt ggntccctcc cgttatcccc accctttggg 480
 anggggaatc nggtggatct taattccaaa anaaaaacct tcctggctaa cccgggtgaaa 540
 cccntccctt ctaaaaaccc aaaatttccc nngtntgg 578

<210> 9408

<211> 552

<212> DNA

<213> Homo sapiens

<400> 9408

atattaactt tccaaagcat ccaaaacttt catgatctgc tgttttatgg ctttagttgc 60
 atcccctgca ttggaatca aatacctttc gattgccaaag atttctattc ctgaagcact 120
 gctatttcca tacttgaagg taatgagttc aggatgtttt ttttggatg taattttaac 180
 tacagaattc agcgcttgtc gagactgtat ataagccaat cctttccgtg aaacaatctc 240
 ccttaaacag tacatatgtg ttgcagtaac caacagatga ctgggaaaca tntntccact 300
 ttcttttact tctttacaag ggaaaatgat ntttgacatc tggtttgttt atccaantct 360
 gaatgtttac aaccnctttt ctatcatcat ctgacattga aagaactgtc aattncanct 420
 gtgtcgtatc ctctcnacc ccaatgctga aaacaggctt tacnccacgg taagggtgnc 480
 cactctgtca tggctgctcc catgccgac ccaagggaatt gaanttttctn ctataaactg 540
 anacttttnc cc 552

<210> 9409

<211> 513

<212> DNA

<213> Homo sapiens

<400> 9409

| | |
|---|-----|
| cagtgtttgt caaatTTaat aaattatata caattttagt aatttagagc tatectacta | 60 |
| tatagtcggt aacatttttaa tgggatagtt atttttatca aagactattc catgggtttg | 120 |
| aatactataa aattttactca aatacacaaat tgctcagcca tagttttacta cttattttaca | 180 |
| taaataagata ttacacattt ccatactcag ctgaataaaa ccttaaggtc taggtataaa | 240 |
| ggtaaattgg atggaatgta aacatttctat tacattaaat agattcatta aaatctgttc | 300 |
| ccagaagttt tcaaaactga caagaaagta aagagagtgc cttatgtcct caatagcata | 360 |
| atcctggagt cacacttcta gagctatagg atataataat gaatggaaaa aaccctaata | 420 |
| ttttaggaaa aaaaaataat nggctattta naacctaata aaaacnttat gtnaataagg | 480 |
| gaacncnang gtgatggtta taaaaccccc etc | 513 |

<210> 9410

<211> 572

<212> DNA

<213> Homo sapiens

<400> 9410

| | |
|--|-----|
| attttgtcca tattcatata tttatagagc tagtatgtca aaaactttac acagtgcac | 60 |
| cattagcccc tggccccccc ctctctttcc cacttctgtg ttcgaaccta cttagacctc | 120 |
| gcacacaaaag gttgatcaaa ggcagtggcc acctcagact antgcaatgc cagtcctgca | 180 |
| gggganaagc ctggcaaggt gaggggtgagt ctcccacagt ccaagacagg tcccagacct | 240 |
| tggccccacc ancgaggaca aaggggcctc angcttccaa acttaactca tgnagaaca | 300 |
| actgcccacc attgtccctg ccattgccaac ttatatangc atgaccctgg cccanfaatg | 360 |
| aagcaggctg aagggcatgg cgggctcaag ccnnaaaact gaaggtggca agtgcggaat | 420 |
| aacnctggcg ggcattgttc tcacaataca actcgtcacc accaaaaatt gccnccccatc | 480 |
| tccagttcan ccacaatcng cacagttttt caaccgggt ggcgtaccgg ccnctgnat | 540 |
| tccccaacct gttccanac tggatttcnc tc | 572 |

<210> 9411

<211> 553

<212> DNA

<213> Homo sapiens

<400> 9411

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aacttaaaaa gttatttatt aaacaagtta aacacaacta aaagtatatt tagaggtcca 60
agattcaagt atttttgtca aactttctaa tgataagggg aatgataaaa attgaacaga 120
tataaaaaat attcttaaac aaatattaaa gcacatggaa aattcagaaa taaaaacaca 180
ccaccatata aagaaatcaa aatatttcat atgtttttta atgcttatgg tatgagagcc 240
aaattgtcta tttccagggt aataaacaat atataagctc acctttttaa aggtatcata 300
ctttgtgtca tatagaaata attttgaaa cagtatgtgt tgggtgtgta aattgtccac 360
attaagcnaa acatatttta catatgaata ttttcantta tacttactgg aaaacaaacc 420
aaaaaacttn taatttaaca tcctgaattg aaaataattt ggattgaaaa tccgccaan 480
tccacatctt accnccnaat ttttttcaaa aanattntcc aanttttta aaaaaattgc 540
tcccccatcc cnt 553

```

<210> 9412

<211> 486

<212> DNA

<213> Homo sapiens

<400> 9412

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aaaagtttca aacaagtttt atttaaaagt gtaatgactt acattttatt ttcatttata 60
tagctttgtt aatttagagt aacacatttt aaaatttcta gtttttantt cctctggttg 120
aanatgggaa gcgttgactg aaacaagaaa ttaagtcttt tcggacaact tgaatttcca 180
acttgggcat aattattaaa atgcttagta nataacttca ggattgtggc tgtggccatt 240
accaaatttg aaagaaaaaa gtgacttgaa atgaaagtgc attgcagttc cngtaacaaa 300
tagatgataa actttattta agtttaattt atcagaaact tacagaaaag ctggagttac 360

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tataaaaaata ttttttttcc tgaatcaata ngttactgct tcactccttg angtatatatt 420
ctnacaaccc anaatatattt ctacatanat acaccagccc tcnnaagttg aagaaaatta 480
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<210> 9413

<211> 588

<212> DNA

<213> Homo sapiens

<400> 9413

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gactcctgag ccatctccct atatcctcat ccaaattccc aaattacagg cttaggtttt 180
tggttttggtt ttcaatccaa tggaggtggg ggcagctatg tnttgatttt tggcaccacc 240
ctgtggtcat acctaaatat tgcaccttct actcaatccc acaaaggga agaaacatgt 300
tntntangg cccanccnac ttcaaattct agctctactt cccagtaaaa ctgtgggcaa 360
gcccattaac tggaagggcc gtgaattata accatgttaa aaatgtnttt tccanaacc 420
caaaaatggg aatgactttt taaaaataaa aaccttnaaa aaagtnttt tccccctta 480
atattgttgt cntacctttt nccatnaaaa ttngggaacc ccccaaatt tcttaaaagg 540
tggaagga acctccaacc ntccaaga aaccactcca attccctt 588

<210> 9414

<211> 549

<212> DNA

<213> Homo sapiens

<400> 9414

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ccaccacgcc tggataatTT ttgtatTTTT agtaaanatg gggtttcact atgttggcca 180
 ggctggctctt gaactcctga cctcaggtga tccacctgcc ttggcctccc aaagtgtgg 240
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actttagaag ctttacagtt ttgcctttca catttaaate ttcaatccac ttggaactga 360
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 tctccatctt ttacaccgat ccacatatgt tttgttccaa aaatggntaa gttcatgttc 480
 tggccttccc ctaanttccc tcccatccna aaattanaac ccccnttct taaaaaacia 540
 tntnagttc 549

<210> 9415

<211> 464

<212> DNA

<213> Homo sapiens

<400> 9415

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 tgtcatttaa ctgtgaaaaa atagancgtc tccccctttg tcatcgttct ggtaacattt 180
 ggagtagcat ctgacagaac ggagctgctc actcctggac cggttatTTg gttaaaaccc 240
 aaaatgTTag gtcgaaanaa tcaatcgTca cccaatacaa ataaatattg cgTTatgaaa 300
 nanacgggca gantcccacg gtatcccttt ttaaagcggc atttccagca cagcagcgtg 360
 gcgctcacag anaccancan ggcgcagctc tgggatgcc aatgggacac ggctgcaagt 420
 anccgtange accgtcccgc cgcaagcTc ctccaccnaa cctt 464

<210> 9416

<211> 540

<212> DNA

<213> Homo sapiens

<400> 9416

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| gagcatttgc | aaaatgttct | ctatttatat | ttttaaaaat | ctgatacatg | taagtttttc | 60 |
| tggcanaattc | tttttgtatg | ttacaaaaca | aaacatcaaa | agctcagagt | aagataagaa | 120 |
| tccttttttc | ttanaaaggt | caagcanata | cttcttgaca | tcatgtcctt | tatacaatgg | 180 |
| catattgttc | atataaaagg | tctcttatcc | tataaaaatc | ttgacaaagg | cagccctcta | 240 |
| atccaatgcg | tccagtttcc | gttctgcgga | ctgctacttg | attgttgcaa | acaagtacac | 300 |
| ctcctacaaa | ttcagcttga | atccccctcc | gtaaganaac | ttgcttgaag | tctgacagcc | 360 |
| ttggttcatt | cataaaaact | gactgatgtc | caggaactca | tgangtggca | agggtccaaa | 420 |
| gtangaatga | tctcactttc | tccacctgtt | tccttttctt | ncacctccaa | anaaactttc | 480 |
| catggccttt | ggttgttgct | ataacnctaa | aatctgangg | aacttcccct | tggtccccnn | 540 |

<210> 9417

<211> 587

<212> DNA

<213> Homo sapiens

<400> 9417

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| gcctcagaag | tttatcaata | acctcttata | tacacatatg | ttttcncaaa | agtgggtgan | 60 |
| aatcatttta | taccatcctt | taaaagaagt | ccaatggntg | anaactctat | aatgagacac | 120 |
| agtgggacag | aaattatcat | gactttcaat | gatcttttct | tccccctaac | tttaatatcc | 180 |
| tttagtiggg | gagagaaaga | agtccatttt | catctgctgt | atctaagatt | ttacagatca | 240 |
| ctggagattc | aaccccnaga | atatattgac | aggagtgagg | ctctagcata | tatacagtaa | 300 |
| cagcatgagg | tgaatctgat | tctttgcact | ttagttttac | agtcacctgt | cttggtttgt | 360 |
| cagttatatc | acaaatatct | ccatttccat | aaaaatgtga | caccatcctg | actgtctggg | 420 |
| taccatcgtc | ttgaanatga | taagctctag | cagtattctc | cttaacccat | tccatattgct | 480 |
| cttcttggtt | ccctgtcccg | acaaccacag | aaggtttccc | ncatccctg | tcnctntggt | 540 |
| attgangttc | atntttgccc | nacnaaatte | cttttcccc | caccgac | | 587 |

<210> 9418

<211> 433

<212> DNA

<213> Homo sapiens

<400> 9418

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aagaactcgg gttttataca atagaatgtt ttctagcaga tgcctcttgt tttaatatat   60
taaaattttg caaagccctt tgantactg ccttagtcta cccactgtcc ttttgttatg   120
aggtaaanga tctcatgaca ccatacacac aaacctatca ttgcctgtga atgcacgtng   180
ggncagaatt cccagttcc cgctcctctg anggttgata ctgctgggaa tgccaaccac   240
tccacaagca gagggaagcc ccctcaggcc tgcagganga nccgcancag tgtgtccaat   300
tcaaaccagc agcaaagaac ctgacatfff cccatccatc tatgangaaa gccatctcac   360
anaacatgga catnngcaac ttgctctccc ncaccaaggg atgggaatct ctcctaccta   420
tantcntccc tgc                                                    433
    
```

<210> 9419

<211> 591

<212> DNA

<213> Homo sapiens

<400> 9419

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gtttttcttt tnatttttat tttaaattct ggggtacatg tgcaggcttg ttacatgaat   60
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gtattcaata ggtagctttt taacccttgc cctcttctct ccttgcccc cttttggant   180
cctcagtgtt tatttctcca gtctttatgt ccaagtgcac acttatttta aacctagttt   240
ccanaccttg tggttgtccc atcanatggg tatgaangta ccatggaacc cataaggcat   300
ctgcacaggt ncctctgctc ggcccagctc ttcaaanttc ttggcatcca aaactaagan   360
aaaattgctt tcattctggt tgggagtgat caccacacaa aagaataacc caccatcttc   420
ttcattgggt cctgggtgct ggaacaaaaa cangttctga agganaaaac cacttctctc   480
caaaccacat caancttgat naaaaaatcc cccctaatg cccaaaaccc canccctaaa   540
    
```

aaaaataaac nttttgnccc tgaatccatc ctntnaattg aagaaatcca t 591

<210> 9420

<211> 444

<212> DNA

<213> Homo sapiens

<400> 9420

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 gctcctgtct cgggcatttt gtctgtctgt ttctctcatt ccanaacctc cticccttgc 180
 tcctcttaca gccggctctc catcttccca ctitcaacgg aggtagcaca tcctcgcaag 240
 agtttctctc gatgccccag gccaagggtat tctccatcac ctcatcctgc tcttggcctg 300
 ggtcaccggt ggtcataaaa attatgcaaa aatgttcatt tgttcatgaa ctgcgtnttt 360
 cttantcct ttgtggggan aatccagggt naatcncctc ccaccatgtt ggaacanaat 420
 taaataaaaa aatattcnct ggaa 444

<210> 9421

<211> 433

<212> DNA

<213> Homo sapiens

<400> 9421

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 ggattttttt gtacaagctt ggctatttca anaggttttg cttggacaat actctgtttt 180
 tcatcaccaa gtagcatitt aaatactcgg ctigaanaaa aggagtcaag cagagtagaa 240
 agaaacctta gatgttgctc tgactttcgt tcattgacat aattaatact tatactctgcg 300
 agtttacaga ctaagtcttc caaaggtttt ttccttanag ganacaaaag gcctgaaaaa 360

attatgagtg anaaaaaggt tcanttgta attccccanc ctcaatcttc cccnctctg 420
aanaaacat ttt 433

<210> 9422

<211> 459

<212> DNA

<213> Homo sapiens

<400> 9422

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gtattatcat gaataattca gcatcttaca agtcactctc caagcaggac anattaaggc 120
agccccggtgt ggacataatc acatctatgg ctacaaggaa cacgcaacag aaaatcagat 180
tccaaccaag caaaaggcng cttgtttttt ttttctttg aaacacagtc tcgctctgtc 240
accangctg gagtgtggtta cgcgatttca gctcactgca acctccgcct cccangttca 300
antgattctc cccctcacct cccaaatact gggaacacag gtgcncacca ccacacctgg 360
ctaatttttt gtntttttan taaaaanagg gtttccccctt gttggccaag ctggtctcca 420
aatattgaac cccnggntat ntgccccct nggcccccc 459

<210> 9423

<211> 599

<212> DNA

<213> Homo sapiens

<400> 9423

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ttaaaaaagt aagggnatg aaaagcctt tgtgttagtt ccatgttatt ttaaaattcc 120
tattgggnta ataaaagcat ttgcactata gaaccagaga catctagaaa agcacatgat 180
agattttttt gcaagcagaa tgcctgaaac attacattta cctcatggca caatgagaca 240
gtcaccaaat ccaatgtctg cattagaacg atacagctac tattacagtt gcaaaacct 300

taatcagctt atccacatat gtacagctgg gtccccacgt gacaaaatct aaaggaagaa 360
cagcatctaa ctgcacctgt gctccattcc ctcacagata agaactgtga cattttggct 420
ctttccatgt tgtgctgctc ttcccaaaaa gccagggtcn tncaatactg aaaaacatgg 480

acaggtctgt tcnttcaaaa cctgaatccn nccgcccgat ccgtgtctaa cgttcgaaaa 540
tttctccac cncgtcccgg angaaacccc cctgaataaa ttctccaaag ggaactgcc 599

<210> 9424

<211> 495

<212> DNA

<213> Homo sapiens

<400> 9424

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cctgccttgg tctccaaatg gagagtatat tattaaaccc naaagagtga aatggagagt 120
caggntaaac acagtgtaat tacaagccac actactatac cacaggcatc attactctgc 180
ttttcctaag ccctactttc gtaaaattgt gtatactaaa tatctttgtt tatctgacaa 240
agaacaggaa gaaagaattc atacattggc actaccatta attgcctaca gtttctttca 300
ctatitttacc taccagatat taggatgtat gacacaaatg taggatgtct aacagaanaa 360
caatgcaata ttgcaacata cagttaagta ctcactcnac gttatcaata agttcttggg 420
aattgcactt taagcccaag atngataacg aaacnntttt taccnnnggc tanttgataa 480
aacaagaatt taatt 495

<210> 9425

<211> 581

<212> DNA

<213> Homo sapiens

<400> 9425

aatggctaga actgtcttaa tttctggaat aagttttttg tagtaaccaa aagtggcggc 60

| | |
|--|-----|
| aaagttacat cggaacaagg gattcttaaa ggactgcact gcanangaaa gtacagangt | 120 |
| taggagtgtt ttacactgta tgactggaga cccagtaagg aaaaaataaa accatttcac | 180 |
| gtttataccc agatttaaga ttcctcagta aaccagttgt actacttttc cattcttata | 240 |
| <hr/> | |
| tctcaacaca ttcctgaaat cctggcactc catcatactt tactagccca accagtctaa | 300 |
| ctcaaagatt cccccaactt gcgtattaac atttcaatgg ctttgttctc aactanaatg | 360 |
| ttcttccttt angtctatct gaagtctatg tttaaaggaa caattctaata gtccatcttc | 420 |
| ctccaaattt tctctcatca caagtacaaa aatagtctct cagggtaaat ttaaaaacct | 480 |
| gcatttacct cntcaagcac ataaaacctt cttgtgacct tttgaanaag cgcatttanc | 540 |
| ctttaaatga tcttgtcttg cccaaaaagn acccccccta a | 581 |

<210> 9426

<211> 530

<212> DNA

<213> Homo sapiens

<400> 9426

| | |
|--|-----|
| gaaatggaat ctggntctgt ctcttgctct gtctcccang ctggantaca ntggcgcgaa | 60 |
| ctgggntcac tgcaagctcc nctcccggg gtcatgcat tctcctgcct caacctccn | 120 |
| aataactggg aatacaggtg cctgccacca tgcctgggct aatttcttgt atttttttag | 180 |
| taaanactgg gtttcaccgt gttagccagg atgctctcga tctcctgacc tegtgatcca | 240 |
| cctgcctcag cctcccaaaa tgctgggatt acaggcatga gccactgcac ctggcccact | 300 |
| ccactttttc ttaatgggga cacttcctct gaacaacang gacaaatntg ggaatggcac | 360 |
| aananaatcc ccatactcct attagttctt atttgaatgg gcctgggtgaa atggaaaaat | 420 |
| aatgggctct gttactaanc actgtntnac tttggacaag tccttaacct ctctaagccc | 480 |
| gttttncnccn ctgttaaag gantcatccc tgnccctc tcataaccct | 530 |

<210> 9427

<211> 547

<212> DNA

特平 1 1 - 2 4 8 0 3 6

<213> Homo sapiens

<400> 9427

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ntctagctca ggggtcaagtt ttccacttt aatgactatc tctgggagct aaagcggcag 180
caccagcttg ttggttctct gcctctgact ccgacaacac ttcttccctt tatttttaca 240
ggcttattac tggcctcctc ctcttcatct gaanactcat cgagctccca ttcattcatct 300
atgtccattt caaatactct cacatgacga anatttgagc ttaactaaaa aagaaaagcc 360
ataaaagcat ttttaaatta atggcttata ntatatnaag aattanaaat cagaagtctg 420
aatcnaagaa tggttttata ggaaagttat attcccntcn atttacaaca aaatcnataa 480
attccccct cnttttgttt taaaaaatc ccnttacca cngttggcat ttcctganaa 540
ttaaatc 547

<210> 9428

<211> 416

<212> DNA

<213> Homo sapiens

<211> 587

<212> DNA

<213> Homo sapiens

<400> 9429

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accctatatt tcaggggctt atgancaggc agttgaaaan aacttaacca gcaaaaactt 120
ggcattcatg atcttgggtc agtataaggt acttgcttta acaaatttta agtagtcagg 180
tcttttttaa agttgtaagg agcaciaaga ggaataaagg aatttctttg gttaaacaga 240
tagggaatat ttttccagcc aacttatccc aattggattt atatagcaaa ctttcttctt 300
ccagaaatatt ttttaagtatg tncattccta tgttccagtt gccacaanat cttgcctcaa 360
gattttcctt ttcctttgct gtagtttata ncaaataccc tctgcctctg ctctttttct 420
tcctatttat gctttttaaa ttcttntaa tgtaatatat ttacactaaa aatgggtggt 480
ngntttcctt tggttttttt ccccncccta cagtaccatt tgaaatttac ctattggtga 540
aaaacatatt actttgaaaa anntttttta ttaccttgat tgcttna 587

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<210> 9430

<211> 384

<212> DNA

<213> Homo sapiens

<400> 9430

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atgagggcnc acttgctcct gtccttggct tggtccctcc aacctccaaa anaactgtcc 180
tccccattgt catatccttt ccttgctacg aaagacaaaa caaatgatg cccccaagaa 240
aagtcccaga ggctctctcc cagcagtcag tgggatgaag caagacactg ttaccttggg 300
tnggatggag aaaccaccag gtcctntcca canaagccac agtgggatgg anaaccctg 360
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特平 11-248036

<210> 9431

<211> 470

<212> DNA

<213> Homo sapiens

<400> 9431

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gtatcaaagg atcactcaca gcccagaagc cccaaattag tgacaaggta agtggacaag 180
tctgtgaaac aggctaaggc aagtgtgtga aactggctat taaaggcgaa caggctccac 240
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atgaatattg atgggccaga accttctagt agacctgcga actcataaaa atggtatata 360
ttatgctaaa aatagtttag cagtagtgta nctcagtctc tccncccc nattaagttt 420
tgacaatacn ccaattccta aacatnaanc tgttttaaac ntttaattaac 470

<210> 9432

<211> 576

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 tggttttcnc ccttcctccg cntanntttc accctgctaa gctgggtttt ggaattatna 540
 aaaaattntt ttggaattct tccgngaacc cccttt 576

<210> 9433

<211> 592

<212> DNA

<213> Homo sapiens

<400> 9433

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 tgtgagcata gtaccaata catagtcttt cagcccttgc cctccccgct cccctcgctc 180
 cccccgccgc agtcctcagt gtctatcggt cccatcttta tgccttgtg taccacagc 240
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 gcctatggct gtgtggtatg aggggaaaat cacactgatt gattacatgc gattccagtt 360
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 ccaacatatg ctggtattca tgtctaact nggttagatc aactactact gtctcccttt 480
 attccgcttt ataaattacc gcatccgttc tgaaccaaata ctaatgtttt cacccttata 540
 cacccttaa aaaagcaagg ttggtgtent aaaccaaccc tggtttccca tt 592

<210> 9434

<211> 438

<212> DNA

<213> Homo sapiens

<400> 9434

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gatctttag gatgatgtat tttcccttcg tgagaacaac catagatttg ctttagcact 180
 gagtgcttgg tggactttgt gcctgaggtg cccttggatg gactcttggg ggccttgctt 240
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gctgtaaact ctgcctcca tctgtccaca tctccagctc caagctgctt catatgccna 360
 aggtgggaca ggtgcttcct ganctggtan ctccccagg cncnctggga atnactgctg 420
 ctgccttggt cctttnng 438

<210> 9435

<211> 350

<212> DNA

<213> Homo sapiens

<400> 9435

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 aactatccca aaataaaccc aaaggtttt gctttcacgg ttaaaaaana ttatatacgtt 180
 ttcttcaaat gtcaaaaatg aaanggtccc tnggacagc aatatcccc ctagttcaac 240
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 ccanncccta nggtgctttg tatantaaa atctcnattc aaatacaaca 350

<210> 9436

<211> 485

<212> DNA

<213> Homo sapiens

<400> 9436

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 cacagccctc catatttatt aggcaaaaana aatantgaga aggggtgtgg aaaaaaagt 120
 cagctgctcg gtccanaata ngcttgcaan actgcattcc tcnacaata ggctctaaat 180

特平 1 1 - 2 4 8 0 3 6

gtcccagtaa ataacctcaa nganccgggg ccagggaacg atggccctca ncaaaccttc 240
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 tgatcatgta ncctccactg gaatgctgan ttggtcacca tccctttggc ctttttggct 360

cccaacattt ccccttctt gtttatgtat taaatnaaaa aatnagggc caagctgggt 420
 nctttcattc tcccattggc agtccatccg attttncna ctatgaacgn aaaaacgaaa 480
 actaa 485

<210> 9437

<211> 597

<212> DNA

<213> Homo sapiens

<400> 9437

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 cagggtgcg acacacaact tgttttttac cccgaagct tcagtgtaac catgactcca 180
 tacagctggg gctccggaag cgtctcctgt anaaggctga tcaatcttga aacagcggat 240
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 tagctcctgc agtttgggaa gcangttttc tggtaatgtg acttcactta gctcattaca 360

<400> 9438

| | |
|--|-----|
| aattaagtag actttttattg ctcaatcaac ttcagtaaca tctccaaaaa aatagttttc | 60 |
| atctaacaat tatgaaacaa atttgaaagg caggatgatt cacaatatag acccagtaga | 120 |
| <hr/> | |
| ggcttatact tcatataaat gaaaaatata agtttctacaa tttaaagtgt tactttggat | 180 |
| tttattatag aagaaaatat cattgtaatt ataaaagcca taaaaattgg aactgtattg | 240 |
| tgaaattaca tcaaggtatc agattttata taaatgaaca ataaaattca atttttattt | 300 |
| atttaaactg anttaaactg tggaagacaa tctcccccat ggggaagaaa aaaaaaaaaa | 360 |
| acctgaata atnaagcccn aaagcccnna cncnaaaact aatcngtgtg cnaaaatctg | 420 |
| attaaaaaaaa c | 431 |

<210> 9439

<211> 586

<212> DNA

<213> Homo sapiens

<400> 9439

| | |
|--|-----|
| ctgattcaca cgaatactaa cgtttaatcc tgttttcaaa gtccaagatt gaaaacttgc | 60 |
| aattaaacac tgagcaagcc acatgtttta gtaatatttc ttaaaaagtc ttaaagaaaa | 120 |
| aagtatgata caggacctaa gttttcagt gcatatatac tattaacaca tttctgaaat | 180 |
| ctggtaggtc acatcagtcc tgaattaact ttaataata ataataata aaaaactaac | 240 |
| tgagctttat actttttcta tgccactata gctttctttc acctcatttt ttaaagtgcg | 300 |
| atcttcactt tatgccgttc tcagtattct tccaaaaatc ttcgaacagt agtcctctgt | 360 |
| ctgatctgag gtcttatcag atcagtttta attggactga gtgtcccttc agatttaatg | 420 |
| tctcactggt cccattgaac tcattcttag taccactttc cttcnattca atgttttgtgt | 480 |
| ctccctctgc tttcccgact accggactca cctacttttt tatcacaat cccnctttcc | 540 |
| tccccggna ttccacctgg tcccgtccna nttggcccgt gctaaa | 586 |

<210> 9440

<212> DNA

<213> Homo sapiens

<400> 9440

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ctctaaactt ctcttctcac ttcatttcat tcatttgatc ttcaatcact gatacccttt 60
cttccattta atcaaatcag ctactgaagc ttgtgcatgc atcacgtant tcttgtgcc 120
tggttttcag ctccatcagg tcatttatgg acttatctat gctgtttatt ctcgtagcc 180
atttgtctac tcttttctaa aggtttttta gcttctttgt gatgggttca aacatcctcc 240
ttagctggg anaantttgt tattaccgat tgtctgaagc cgccttctct cgactcgta 300
aagtcattct ccatacagct ttgttcgct gctggcaang aactcatgtt gctgccta 360
ccttctctg gaancttcat ctcanaagg naccnccct attaaatttc natnecccc 420
cct 423

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<210> 9441

<211> 567

<212> DNA

<213> Homo sapiens

<400> 9441

<210> 9442

<211> 573

<212> DNA

<213> Homo sapiens

<400> 9442

aaatanacag attctcactc tgtcacccan gctggactgc agtggcacia tcttggtca 60
ctgcaacact cttgccttcc aggttcaaga natcttgtgc ctcagcctcc cgagcagctg 120
ggagtacaga cccctgcccc catacccggc taatcttctgt agcaaattac tcatttctct 180
gtctactttt tattataaag attgtggcaa ctctgcttag gactctggat ttttctgccc 240
aattaaggta aaaaaagaaa aaaaaagca accaccacca taatattacc caggaaacca 300
gctgtgttct gtanaaggcc ggcctatcan attcaagttg caagccttat acacagtaag 360
tgtctcatgc acatatccat gangattcac ataagctgcc atcgccccac ataaggataa 420
actgaatatt tcatttttgg ttgttatttc tgtttcttga aattgtttac agccaaagga 480
aattaattta tcntaatgtc taatteccac naaatccctg anaccctgcc attttaagga 540
antnaatcnc catactccnc attaggaaaa aaa 573

<210> 9443

caaacactgc cctttnttg tgtgtttgt tttgttgac aggttgaaag catgttgaaa 360
 aaaataaata ttttaagaaa gcacacacag caccctcact acaagttant tctaaaaggg 420
 ctgcntacca aacncnata tanatctaaa aaaaaccccc ccattaattt ggctttccta 480

aaattccnn t 491

<210> 9444

<211> 543

<212> DNA

<213> Homo sapiens

<400> 9444

gaacttccta tgataaaacc atctacactt ttctaagtag gaaaaataag ggaatgagtg 60
 tcatgttttt aaaaatttgg ggaaagatca agagtacaga anagcatggg gcaaaaaana 120
 agtttaggtg catttaggtg acatcaataa agcccagttc ttttttttt ttgacaaatg 180
 ggatcatcct ataaacattg ttaggcaa atacaaaatct atctgcgctg tccctagttg 240
 ggcnaacat gncatggc aatctgtctt gctgctgtgc agtccttccc tgggtggctg 300
 caggggcaaa cacagggtt gtnggtcctg ggtcttataa aaatcaggta caaattgaca 360
 cntntattta aaagganaaa ttgccaaatg anacaaaatg ttttccttat gcaaatttca 420
 taatataaat tatanacact gccagtgcac tgttangacc ccncgggctt ggaagggtc 480

aaaatctgat ctatttgcct ccaacaggcc accacaacac acagtagata aaacacagtg 120
 gttacaaacg tcttttaaatt ttatttctga ggcaaggcaa atgggaggga aatgtttcta 180
 tgaaaaaata ctgtgtgcgt aggaaattgt cacaatttta ttccacatgg atacaaatga 240

ttatacttta atttaggccc tgggtggctta aaattatata acaaaataga aaaatggaaa 300
 actaatatcc cctacccttg tttcnaagge angcnctacc canantaang anaaccccc 360
 ctttttggtg aaaga 375

<210> 9446

<211> 493

<212> DNA

<213> Homo sapiens

<400> 9446

gggtaccana atggttccaa ggtagtact gcttgagctc attcagctt ctgccatgca 60
 tctttccata tttactgagt ttaaataaat catctcagag agaaaagaaa aactaaatat 120
 agaaaagtgg gagtactttc acgtttaata cgcaaggga taaaatanaa tgtaggaaa 180
 caatttgat tttttccct aaaatatagg tgactatggg ctantttaca actttccttc 240
 tctcactgaa ataaaaatac atagttaagg aatagggaacn aatacataac aggtgacatt 300
 tgacagtttg ggcatattcc ttgttacttt ctaatcttga gaatcacagt ttgctgtttt 360
 agaagtatct ganangttcc agataaaaag cgatggctaa atgctcttaa actttgagcg 420
 tgctggatgc tctaaagttg gagaagaatt tataacanaa ccttacnatg aanaaccnac 480
 ntccnaaccc nct 493

<210> 9447

<211> 496

<212> DNA

<213> Homo sapiens

<400> 9447

特平 1 1 - 2 4 8 0 3 6

ganaacaagt ttgctcttt ttgcctagcc tggaatgcaa tggtagcatc tcagctcacg 60
 caacctctgc ctccagtctt cctgcctcag cctcccgagt agctgggatt acaggcacac 120
 gccaccacac ctggctaatt ttgtattttt agtanacca gggtttcact atattggcca 180

ggctagtctc gaactcctga cctcaggtag tccaccacac ttggcctcct aaagtgctaa 240
 nattacaggc gtnagccact gcaccagacc ttgtatactc ttttgcctc atttcagtga 300
 ananaattaa tgtnagagaa aaatggggca acgagagaga gattactgaa aacacttatt 360
 gtgaggaatg aanacctgac tctcaattcc actatganca cnttacaggc agctctggac 420
 acctgaagct aacagtccaa tatttgaata aggctgttac actttcnctt acnggttttg 480
 gncnccccct tnttta 496

<210> 9448

<211> 586

<212> DNA

<213> Homo sapiens

<400> 9448

gagacggaga cttctctgtc gcccatgctg gaggtagctg gcactatctc agctcactgc 60
 aagctccgcc tcccgggttc acaccattct cctgcctcag cctcccgagt agctgggact 120
 aaaggnaccc gccaccacgc tcagctaaat ttttgtattt ttagtaaana cagggtttca 180

特平 1 1 - 2 4 8 0 3 6

<212> DNA

<213> Homo sapiens

<400> 9449

ccatttagtg acaggaattt aagcaaggac ctgaagtana atcaactgat tcacacagta 60
gtaaatacaa agtanaacaa tgatcttggc ttcgctgtct gggtcagtgg tctgctggaa 120
tgcaatacac aagttaagtc acactgcana ctgttttcta gctgtggccg ctggatgcca 180
cttctagcat agtaaaacta tgtaggagg aatgggaaaa gtgagcacca cttctcacca 240
tgttcccccc tctgctgcc agtctctgct cccatgttgg atgcagcaga aatcnccnc 300
cacttgcccc aggacanacc aatangaang ggtccaatcc tctactacgg cgaaatentc 360
tccncaac 368

<210> 9450

<211> 381

<212> DNA

<213> Homo sapiens

<400> 9450

anatctttct atgtatttca acccttccaa ctgcagctga tccagctttt catttcgact 60

<213> Homo sapiens

<400> 9451

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ggaattaaa gtaaactttt aatgcatata ttttaaaaat tcactttcca ttttactatt 60
ttaaagtgca tgtnaaatc ttttccattt tttgtaggt aattaatttg aanaaggga 120
atacaatgct ttactattac taccaacagg attttacaca agaaacatta gtaacttaag 180
ctgtggatcc tgtgaatgtn caactgacac agattttgta aatccatact gggcctggaa 240
cttatgttga ttataaaaagt caaagggtaa ttttcttita aagatatatt acttataaaa 300
tattcccga gtatgaattg tgcttttagt ttaggatata tgattttaa tgatgcacac 360
tgcagatgaa tgtttacccc tgctgtngat ttaaagaaca gcatanatat ctcaagaanc 420
ccnaataaaa ttaatttttc cccccctgt ntaactcctt aaggatttca tccccaaagc 480
tatccanaaa accccctact ttaaccaanc cnttggttaa tttattaccg gatacaaaat 540
nncceaacc atttttgggt naaattaaat gaacttcccc ctta 584

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<210> 9452

<211> 532

<212> DNA

<213> Homo sapiens

<400> 9452

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gacaatggaa atgtttattg ctggtggttg ggtctgtcat ttcctaaang acatagctgg 60
ccagcagatt ttcatttctt ttttataaaa taaacaaatg cctactttat tatttataca 120
cagaaaatta tatanaaaca ccacacaaac tgcttgaaat acaaattatc tttggtttac 180
ttatcaaagt aaaaaataac aaaaatctta tcagttaa ataaaaagtga cattctttat 240
caagccttct taaacactga aacgcacgca tttttatgct catgttcttt agcagtattt 300
ctcccccttt gccctcatt cccctaaatt gtttcaatga gttcatctgt agaatgaana 360
ttgttacctt tcttaatgct acttactttt tattatctca atatcaagac caatctagac 420
ttttttgtct cttacatgtg aaatggaagt ttaaaaagga aaaatcccn cccctttttt 480

```

<210> 9453

<211> 479

<212> DNA

<213> Homo sapiens

<400> 9453

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gtcttcagtg aagtttactg tatattataa acagtcatag aattcaaaga caatcatata 60
accaactctt ttggatggct taagatgtgc caggctactgt gctaaggaca agagatataa 120
ccagatacaa accagtcctc atcctcaatc attacttatt cactcaacaa atatttttga 180
gtacttaccc tgcaccaggc actagggata taacagataa aaattaagtc tctcgcttca 240
tgaagctttc attctgatag agggagacgg caataagcaa ataaatgggt tattccacca 300
ccccttcaag tcttcactca aatgttcctt tttcaatgag actatataac caacgtattt 360
aaaatttcaa ccaccatcct gcattcactg cttttcntct tgctaanggt gattaatatg 420
tntttatttg actgaacaca angggccnna tacttgggcc aacattatnc tgggtgtgt 479
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<210> 9454

<211> 467

<212> DNA

<213> Homo sapiens

<400> 9454

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gcagggggaa aggcaaggaa tatatcgtct acacaattgg gacaaattca tcttttctgc 60
tcttcacttc atgtccacat caaagtcag caccagcagc ttggtttctt cagtccatt 120
ccgactccca actgcacaca ccagctttgt gtttgaggct ctgatccgcc acacaactcc 180
cccactcccc ccactctcca atgtgactag gtttgaata aattcaccgg ttttcaagtc 240
ccatagtttt acagttccat catctgagct ggtaattaca aagttcttgt tgaactgtaa 300
acaggtcaca gcactctgat gcttggtggg accttgcaat gtttgtaaac actgtcctgt 360
tttgatatcc cagattttta ctgtanaatc tgcattccca caaacaaaa tattgtcttt 420
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gaattncntt ccncttgttn acaaaatggg tgncccgttt acntttt

467

<210> 9455

<211> 483

<212> DNA

<213> Homo sapiens

<400> 9455

gtcttttgtc aagtttatta tggttggttt gctcagctct taggaaagag ggtttggaga 60
cagaccggtt aggccaggaa aatttaggcc cacaagtccc ggtggagctg ttctgatgga 120
gttgttctaa tgggtgcttc tctcctgcag aacttgagca atcagtccga tgaccaggga 180
gatgaccccg gcagagcagc ttgccactta ttagaactgg gttcatgag aggctcttag 240
gacactggaa atttcaagtt aatatactga ataggctttc ttcctgtgaa aattttgcag 300
gcattgtcca cgatggatgg aggaaaagag ggaaggcaag agaccaagct aggattgact 360
ccaatattct ctgccaccct gtccaacac caactcccat aacctaaaaa ggggtggagg 420
tggaatcaa atttgcnttt ggtgatngt gcaatttntt ccnactaaat cntccnanc 480
cct 483

<210> 9456

<211> 577

<212> DNA

<213> Homo sapiens

<400> 9456

ctttgccaan aaaagttttt attgcaagca cagtgagcan aanagatgt cttctcacac 60
aaagtggcca caaggtctgc cattaactaa atctctttga caanccttca ttggtttaaa 120
gcatatgaat tagcttcttg ctatcaggtg tacatcattt ctgccatgtg ggacattttc 180
ttgggaatat acaagtaata ctccatgtag cctgacaggt cctcaatggt cacatcatcc 240
acn222actc gaggcttctc an22caggat cgggganagg canacagagt tctggcgtgc 300

agcgactgaa antagtcctc aagtgtggat cttcgttctg gagccaaggg agggacactc 360
 tgcaggcctg aaaaggaata tacttccata tcatgccatc tcttacctg gcattccttg 420
 cctatgcatg tgcattggctt gccctgggtt aacttggaag ctgattgaaa attcnaaaaa 480
 aatcctgggc ttgaaantt gcttggggga nttgggttac ctcaaaagaa tctccctcct 540
 acnnccgan gggaacctg aanaaaattc tcaaagn 577

<210> 9457

<211> 549

<212> DNA

<213> Homo sapiens

<400> 9457

gttttncag gttgtttatt ctttttaatt atgaatgcac atttatttat tcatgaacat 60
 tgggaaaaac gcaaatacat cagaatcgtt aaaaatctac agctcctcat tcttactac 120
 tagtttctct tctcagangt aaacactttt tcaaaaattc gtattttaaa ttgggggtg 180
 ggtaattcac atggtgcaaa catcaaaagc tatgaaaagg tgaagtttcc ctccatttc 240
 tcattgctcc aaagcaggaa atcattgtga ttaattttgt ttgtttttcc anaatgaaca 300
 caaagtttta taatatttgg aaaggacact gtctctcana ntccaccctc taagctaagc 360
 atttgtgata taaagtcagt anaaaatata ttaacatttt cccctttct agatgtattt 420
 ctagaaccan aaaaaggaaa ggcaccagg ggaattataa tctcnttaa agtttgaacn 480
 acccaattaa ttgtttctc nnaaaaaatt tattgtcca ttgtnactgt tnnaaaaaag 540
 gaaaagaat 549

<210> 9458

<211> 599

<212> DNA

<213> Homo sapiens

<400> 9458

特平 1 1 - 2 4 8 0 3 6

gatggaaaa tggaattctc agttcatttg aagaatacag attagcaatt aaaaaataca 60
gcagtatctc aggaaataaa cattattctc attttacaaa aaagtgtatg tgaactttaa 120
aaaaatctac actacaatat gaattgatat tatctctggg tagaatgcta acaattttat 180

tttctccttt actgtattca ctaaagtgtt cacattaaat gttgtattac ctttgaaatc 240
agaanataca ttgtctaaaa ctgatacatc aagaaatagt tgtataagca tattacctaa 300
acacagaggt taccaacaga aattaaagt ggtaaaaaat gactcctggg gaactgtaag 360
aagangaagg tgaagggaan aaatggttgc tttccattct aaatcttcnc acaatctatt 420
cttaaaatca gacaaagntg tggtaaattt tttccattat taaaaaaaat tatttctctc 480
tataagaata ngcccttgaa aaaccatta attgttatag gttcccattc ctttntccc 540
ccccnttttt ttaaagcca ccnggttttc cnaaaatatt tccncccc ccggaccnn 599

<210> 9459

<211> 456

<212> DNA

<213> Homo sapiens

<400> 9459

atattagatt ttaaaatatt ttctttgctt ttattttaat gctttatcct ttacttctgg 60
ctttganagt aacaggggaa agatttanct tcttactgtg aagaaacaga aaattantcn 120

<213> Homo sapiens

<400> 9460

| | |
|--|-----|
| gtgagtggca acattttatg tatgctaaat tggatggcaa tattagatta catcttctgc | 60 |
| aactgtggtg tcaaaaatct gatagcaaat ttgattatct gttccatttg tgacattgta | 120 |
| tgacttgatg aagcattcca accacggata tgcatcaatt tttattcctg gaggacaaaa | 180 |
| catatccatg atcatatcca cacttttctg aaggtcatca tccatcagaa cttctgatgc | 240 |
| tggaatctgg aanaatttgt canaatccat ganataggct tctagtactc ctgttccatc | 300 |
| atcaagtgta aaggtcataa caaacacata ttggaggggt ncaataccca gtgcttctgc | 360 |
| cacagaaaga angaatccac gatgttttat caaccagggg aatttanatt ttgtatggat | 420 |
| ctcaaactan aacactgttt acatccctag tgatgttttg ttccctgtat aaaaaatggt | 480 |
| gctgaaaagg tccaaaattc ccaggtcctc cttggcccnna tntccccgga atttcccttn | 540 |
| tttaaccttn ttccaaaaat ttgcatn | 568 |

<210> 9461

<211> 561

<212> DNA

<213> Homo sapiens

<400> 9461

| | |
|--|-----|
| ctgatttcat cttttattaa aaagctgana nttaaagaac tgtagggata actaagtcca | 60 |
| cctcaaagtc canacagaaa ctgccctccc aaagaaacaa tgtttcttta aaacaaatac | 120 |
| cacaccttcc canatattat gggtaggtaa gtgactagggt ttgcaaatt aatctatagc | 180 |
| tgcccatgtg catgtagtcc aaaaaacatg ccaagaagga anagctctga accagacaca | 240 |
| gaaaggcagt gtggcttccct cgctcaaggg gaatgcaaag ggctaananc cctggcttca | 300 |
| agcagctgtt atcctagatg aggaaaatgc aaacagattc aatctctggg atattgctgc | 360 |
| caacatgcta agcccttcac cagttgcctt gattcgaagc agttcctcta tgtntactgg | 420 |
| ctaaatgatg gactccggca gtgaaacca catactcagc aggctgcatt ctaatganaa | 480 |
| tgaangaatt taactaatgg tgtttgaact ggaaaaggta aggtctgaaa atcccattna | 540 |

actggaaacc caaaaaaaaa a

561

<210> 9462

<211> 562

<212> DNA

<213> Homo sapiens

<400> 9462

gagacagagt cttgctctgt caccangct ggagtgcagt ggcgcaatct cggctcactg 60
 caagctccgc ctcccggtt catgccattc tctgcctca gcctcccgag tagctggaac 120
 tatagggtgcc cgccaccacg cctgactaat tttttgtatt tttagtaaaa acgggggttac 180
 accgtgttag ccaggatggt ctcgatctcc tgacatcgtg ttccgcccac ctcggcctcc 240
 caaagtgtg ggattacagg cgtgagccac cgcgcccagc ctaattttgc attttttagta 300
 nanacgggat ttctccatgt tggtcaggct ggtctggaac tcccgcctc aggtgatcca 360
 cctgcctcgg cctcccaaag tgctgggatt acaggcgtga gccatancgc ccancctatt 420
 tcattcattc taacacatct aagctganct ttgaagaaaa aatnggtgac agggaaatcta 480
 cagccaaaan aantggttga agaattgcca ccaaactctg ttactaaggg gcccaantnc 540
 tcactcctnc aaacttcccg gn 562

<210> 9463

<211> 541

<212> DNA

<213> Homo sapiens

<400> 9463

gaaagtatth attgtttaat aattctttct cccctcagcc ccatccggnc actctctctt 60
 tctgcttttc tgatcatcct aaaggctgaa tacatcctcc tctgtgtgg angacacgaa 120
 gcaatactaa aatcaataca ctcgatcagg tcttcatcan ataccacgtc actgtgggta 180
 nantgctagt tttcaacaaa tgtgggtgtc ttagggctcc acaaggtant cctttctcaa 240

ggtcgctggg ccactcatgg agttgaaatg ccgctgccc tctaagtaca acatggactc 300
tccatattgtt ttgggaaaa ccaatggcac ttctttttcc gacatgaacg tgaaatgaaa 360
gacattggtg gttgtatgct gcttctcctg cagggangcc acttcactgt gtactctgac 420

ttgaatataa ttattctgaa ataaagcata cctgtgaana aagaaagaac nntgancccc 480
ctccacaggt tccgaaacat gatttctcta ctgctancac aaacggtcna aaaacnccaa 540
a 541

<210> 9464

<211> 460

<212> DNA

<213> Homo sapiens

<400> 9464

gtaataacat tcacatatgt aattagagtt taaaaatgta aaaaacttag ggtaacaaac 60
actttaaaact ttttttttag acattcaata agcccattct cccacaaact gtttgattac 120
aaagaagcac aatgggttaa ctgtggcaaa acataagaaa taaggcaggg gaggcagata 180
cagacttgan aacataagga tatccaaaca attttgtcaa tatcaaaaga caaaatcaaa 240
acatctttta taatataaaa caaatccata taattaaata ctaattaggt gaaanattat 300
agggtatata acatatattt tctctacata aatttgcata tcttaaattt aatgcaaaac 360
atcatgtttc acttcaactt aacatcntaa catgttantt cttggtgant ctanatntta 420
tggaatgaat atttaaatta aactncaaaa atcctancca 460

<210> 9465

<211> 349

<212> DNA

<213> Homo sapiens

<400> 9465

atttctgaaa tttttatgtt tcatttttcc cagaggaata agatacattc tgatcccata 60

| | |
|---|-----|
| ataatcgaat cacaaaagaa accattgagg gcatttgctt tgctgaactg atgagatgaa | 120 |
| tgattaattg tctggaattc nncttcctgg agaggcaaat ggaggtntag gaaggccnaa | 180 |
| aattaaaatt aaaattaaaa acccnaggaa agagaagaga anaaaaggaa agtttaagag | 240 |
| aaaaagaaag aaacnaagga gaaaaaactn tnaagtngaa aanggagaaa gtggaaaaaa | 300 |
| tattccnttg gggtgtatat tgtcttctag ggccccntga caaaatacc | 349 |

<210> 9466

<211> 566

<212> DNA

<213> Homo sapiens

<400> 9466

| | |
|---|-----|
| gtatttttag tanagatgag gtttcacat gtttgccagg ctgatctcga actcctgaca | 60 |
| tcaggatgat caccacctt ggccctccaa agtgctggga tcacagggtg gagccaccac | 120 |
| accggccca taaacatata tgtttaata gagctttaat gaaataggat ggangtactg | 180 |
| aatttgtgan taccctttt gctttttgag acagantctc attttgtcac ccangctgga | 240 |
| ntgcagtgg gcaatcatgg ctactacaa cctctgcttc ttggactcaa gtgattctca | 300 |
| ngcctcatgc acccaagtag ctgggattac aggtgtaccc caccacacca agctaatttt | 360 |
| tgcattttta gtaaaaatag ggttttgtca tgttgaccaa actantctca aaccctggct | 420 |
| tcaagtgatt cccaccttg ggccctaaaa attgctnaaa attaccactg aaccacacct | 480 |
| gttgaatatn ctttaaata gattataagg tttttgcctt ggaacaantt ttcnggaaaa | 540 |
| aaaatccaaa anaaanaacc cticct | 566 |

<210> 9467

<211> 545

<212> DNA

<213> Homo sapiens

<400> 9467

| | |
|--|-----|
| atgtatgaaa aattatttaa tccagtttcc tgatttcatt atatatttct tataaggttt | 60 |
| tcattaggct tttgtttttg tttttggttt taaataaaaa cactttattg cacaaatccc | 120 |
| acaaaggtct caggccctgg gtccaagccc acagcccca cctgtcccct ggctctgggc | 180 |
| ctggtctttg gtgcccaccc tggcctcaca tgccaacgtc ttctgtggan tgtgcagggtg | 240 |
| tccatgancg ttcctgtgtt gggggaancc tgcctgggcc acaagtaatc aggcactgtg | 300 |
| gcagcctcac aatnaaaaca ggtgggggtg aattgggtcc ccacctgccc angctcangg | 360 |
| gccacagggg tctacacagt cctttctgct ttgaaacacc tngtaaagtc tgggtgggaag | 420 |
| gaacatggca ccggcaccaa ncaaggaacc cacttggatg gncacaccaa ctgccancaa | 480 |
| tnccgggcca ancccaccat gcacaaggaa acttgcncn cctccccctt taaaaacccc | 540 |
| ccnaa | 545 |

<210> 9468

<211> 532

<212> DNA

<213> Homo sapiens

<400> 9468

| | |
|---|-----|
| actggtaaat tcattttaat aatgagggga aaaaacttta gttattaaaa acaaaagaat | 60 |
| gaatacacat acacacacta aatgtggcag atgtttccag gagagattag caacagagag | 120 |
| gccacatgat caaataaaat ttacactttt gatgggattg tcccctcgcg gccaccaag | 180 |
| tgtttgtgga anaaagtctg gagttgtttc caagcatcca cctgagccat ggcatgagcc | 240 |
| ctgggctccc ctcccanat aataggactg cccaccaagg catgcaggga ancccgacac | 300 |
| agggggaant aaggaggctc aatatantgc cctgtctctg ggtaacaaat gatctggggc | 360 |
| tttctcctcc catgggcctg caancgttta cangcctent taacataaaa atccctcctc | 420 |
| ccgttgttgg tcctncctga cctanccaga aacaggaaag ttctctctgc cctttncccc | 480 |
| aggaaataaa cnctcctgg ttcggttcct cccaaanggg cnnttcagg aa | 532 |

<210> 9469

<211> 505

<212> DNA

<213> Homo sapiens

<400> 9469

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caccataacn tttttattaa ataaaggga atattaggag acgatgtctg ctaanatagg 60
aggttaattc tttacatggt gagggtgca cagaaacaat acatcaatcn tctgttacca 120
ccganagana cactttaagt tncccaaga gtacaaatcc catctatgaa acagcagtgc 180
tggtcttcta aaaacagtaa aaccaatcaa aaagaaaaga tttagagggt cagacattag 240
aacaatgtg gccaganata ccacagagcc ctgaaggga aaggcctcac tgctggctcc 300
gtancaatgt tgaccennaa acagggcagg ccangggant ggcagggcgc ggaggggtgg 360
aaaggaggga ngaaaaaaaa tacaccctc cagacctgcg gcaagcgcca ctatgggatt 420
ctgaagttag cgtcnccctc caatttncn ggaaagggan tgcctggccc aacangggca 480
atttttaaag ggccnggatt tntcc 505
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<210> 9470

<211> 543

<212> DNA

<213> Homo sapiens

<400> 9470

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ganacggagt ctcgctctgt cgcccaggct ggantgcagt ggcacnatct cggctcactg 60
caacctctgc ctccgcctcc agagtagctg ggactacagg cgcccggcac catgcccggc 120
taatTTTTTT tgtatTTTT antaaaaacg gggtttcaca gtcttagcca ggatggtctt 180
gatctcctga cctcgtgatc cccccctt ggcctcccaa agggctggga ttacaggtgt 240
gagccaccac gccagccaa agcctgcctt tcttcttctc tatccatcct ggtctcccca 300
tttaggggg gctctggttt ggctcttctt gccttgtggc cattgcctt ggactcttag 360
cttgacctc taaganatta agtctacac ctcatTTTgg ccacttcta cctatcaagn 420
aagtgacttg ggcaccattc tggacactaa tccttggcan gctccaangt tctatccta 480
cattggttgn aagttgggga aaaaactgtt ggtcttttat taaacnctn cccccctc 540
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nan

543

<210> 9471

<211> 488

<212> DNA

<213> Homo sapiens

<400> 9471

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 ataatcgaat cacaaaagaa accattgagg gcatttgctt tgctgaactg atgagatgaa 120
 tgattaattg tctggaattc agcttcctgg agaggcaaat ggaggtatag gaaggccaaa 180
 aattaaaatt aaaattaaaa accagaggaa agagaagaga agaaaaggaa agtnaaagag 240
 aaaaagaaag aaacgaagga gaaaaaacta taaagtggaa nagggagaaa gtggaaagaa 300
 tattcctttg gggtgtatat tgtcttctag ggccaccatg acaaaatacc acgactgggg 360
 gatttaaaca acaccagttc atttttttcn cagttctgga gactggacct cccanatcna 420
 ggtgcaggcc anactggttt cttctgaagt ttcccnccct gggtttacaa atttcntcnt 480
 cttactgt 488

<210> 9472

<211> 561

<212> DNA

<213> Homo sapiens

<400> 9472

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 gaaatctgtg anaagaatat ttttggttct aaagacgggt gcatccgttt gtcttcnccc 120
 gaatcccttg ctggagacca cacgancant gacattgcac ggananggca gctttgggtt 180
 ccgccgccgt cactgaaacc accggaangc ggctcccgtc ggaagcatca ctttctccan 240
 ancagcgga gcttcttttt gagttcctcn cattttctga atttgcaaat ctgatggcca 300

gtctttcgat tcctacaact gctgcactgc tcgcanttga tgcncncnccg gcagggcgcg 360
cacattccgc agcgtttccg cttcttcttg ccgganctga tggcanaagc cagctctccc 420
tgcattgggt atcaccaagn cncctatctt ctcccgtctt ccggccanga aaaaacctgc 480

ccgggtctnt tataaaaaag cctgggttna ttggggaaac ccccccttng ggganattcg 540
aatggccctt naagggtncg g 561

<210> 9473

<211> 462

<212> DNA

<213> Homo sapiens

<400> 9473

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acagcaaagg cagaggcaaa ccacccacc ctttctcagt tggggctgag aaagagctgg 180
gaccctggca gccacacac agtctcttca taagctgtaa taaatcactt atactccttc 240
tcccaaccgc ccagctaggc ttctactta tgaggttttt cctcttctag attgttctac 300
taagtgttca tttaaaaaac gcttttgttg tctaccttgg ggnaagggtt tcacatcaca 360
gactgtcctt cccagtgcca gaatgttcca tctgctgcca ttcaaaanga atcaataaat 420
ctcttttaaag tncnataatg ttnanaattt tnggtntttt ct 462

<210> 9474

<211> 280

<212> DNA

<213> Homo sapiens

<400> 9474

caagggttta ataaatttta tcttgataac atcaaaaaca agtttagctt ttacactgca 60
atataaaaat acattagtct tcacattagt ttacatgga aatatataat tatttgaata 120

tttaaata gcttttcttt aaccaaaaaa aaaaaaaaaa aaaaagtgtt actcacagcc 180
ctagttacat aaataattta aatgcacaaa tgcaaaaaca cacttcacac ganattgtnc 240
acatactgnt anaacncggn acaattacna taaaaattct 280

<210> 9475

<211> 366

<212> DNA

<213> Homo sapiens

<400> 9475

gatctacctt ttggtaggaa tatttcagcg ggggcatatg accttgtggc attgaataga 60
tattcataaa gttgcttagc ctcaggacat atgctcagga gactttctac agaggctgat 120
gctagcagtt gctggcatag tccgtgcacc aggcttccac tgtacagtcg agttaggtct 180
ggctctggga gaggagtgga cagcagctgg ttgagataca tccccatctg gagacaggac 240
tgccactgac agaagatgtg agctgtgtct aagtccagtc ttgtgcccag ccgtgtctgc 300
gccttcactc tttggaactc tgcatacaac atcttagcac natctnctg cnnctctncc 360
ttacna 366

<210> 9476

<211> 405

<212> DNA

<213> Homo sapiens

<400> 9476

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atgacattga cactgttgct agcactttcc cctaaaccac ccataagtct tggacgcatg 120
tgcatgcagc acacacacac acacacaaaa accaaaaaca aagccnaaaa aaaaaaaaaat 180
cccaaacaca acaatccatg attgttcaat gactcctgat gccgggagga caggctgtta 240
aaaaaatttg tctcccacaa tatctctgga gtgggcacaa agcccatcac ctgttagtga 300

tcacagacat tcagttaacc tgccttccn gtnatcngaa aaaacaattc aaacccggaa 360
ttccccaaaa ccntnttttg gtgaattntg ggtttgaaaa naaaa 405

<210> 9477

<211> 374

<212> DNA

<213> Homo sapiens

<400> 9477

gggaacaaaa atttgctttt aaaatgtgag tttataacac ttgaaggatt tcattcttaa 60
ctcccaatta tataattaca aaaaaaatcc aagtttcagg aaaacatact taatcctaac 120
ataaaattca tgtcacttat cacaaagaca gtcnagtgtt taaaggagaa acaaaacaga 180
agcagtattt acaaatttaa actacatgan atgttgtgaa caatcttttg ttaataaaca 240
gcacgttaca tacttttaca tactacattt caaaaatgca tctgtgaata atatgataaa 300
gcgcatagtg ttgaanactt taaattaaat ccnaggnct cntgttgaan acctgaaatt 360
aaattcnagg ttgt 374

<210> 9478

<211> 443

<212> DNA

<213> Homo sapiens

<400> 9478

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gtgcagagtt attgtttcaa aaagtgagaa actacttagg tttaactgaa ganggaacat 120
gatctttatt ggcttatatg caaagtttca ttttggtttt atgcanantt tgcatagttc 180
atgatttggt tctaataaaa aactaaatgt gttgccagtg actgtgaaaa aaatcaggtg 240
acagtagcaa acagaaaaat ctgaanaaaa agcntaactt ttaaagtnaa aaggtcngca 300
agaactgctt cagctgcagc cagtgatgtc acctccatca gggtcactgc tcggaaagca 360

aacacggnag ctgccagcac agcaagaatt tccaganaat tgtntcctan gattctatcc 420
cntaaaagca ananctgac tgt 443

<210> 9479

<211> 496

<212> DNA

<213> Homo sapiens

<400> 9479

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cagcctctgc ttcctgggtt caagcaattc tcccacctca gcctccctan tagctgggat 120
tacaggggcc tgccaccaag cctggctaata ttttttgtat tcttagtaaa nacaagggtt 180
caccatgttg gccanactaa tcttgaactc ctgacctcag gcgatccatc tgcctcagcc 240
ccacaaagtg ctgggattac aggcattgana caccacggcc ggcccccaant tcttgaacat 300
tacacttttc caccaacatg tnggtatttt catgtgggga attaaccggg actggaggan 360
ggaggtgagg aattgatacc tgttcacttt gcaactaaca aangaaaatn ggttctttta 420
aaacatttac ttttttccat gtnggcccaa nataaacacc ttaaaattta attgtttacc 480
ttnaagggtt ncctac 496

<210> 9480

<211> 346

<212> DNA

<213> Homo sapiens

<400> 9480

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caccactgca gcaccacctt tctctcccgc cccggnccgc ccagcgggat tgtnaaatc 120
ggctccccta ntgccgtgg gcctccttc cacacangct gggcgggaac ggcaaatnan 180
cgactaaccc ccnactaaaa agcggctgct gaaaagccca agcccacctc tgttcaaac 240

aagttaacaa anttcanaag ggaagaaaaa aaggganggg aaagattatt ctcnnaacag 300
gacccccccc ccctcctgaa ttattaanga nggaaagggc ttccca 346

<210> 9481

<211> 490

<212> DNA

<213> Homo sapiens

<400> 9481

gagaattcag gacatttatt tttctgcatg gaaatttaac tactgtataa cacacgcaca 60
tacaaaacaa acccacaag caacagtgtg taataggtag tgagagacac acaaaataag 120
catatttaaa acgcctacaa acagcctttt ttttttaggc aacaaaatac gtccagtcct 180
tgacatcttc tcatactcac ctagcaccac agatgcaagg acctaacagt aaacatgtnc 240
aatctcatgc ttaacaccta aagcatgcac tgaattgaat ttgtatgttg tgatctattc 300
tactaagtat gcaatacata ctttttctta ctaatatatt atacattaaa ttaccngca 360
gcattttgaa attttaacat tgatgttaaa caacttttga aagatttatg aaacaagttt 420
ccaggntcc cntcacgggt ggtttgggnt naatngaaaa atggcacccc ccncnaggtt 480
cctactgaat 490

<210> 9482

<211> 561

<212> DNA

<213> Homo sapiens

<400> 9482

aaagaaacat ggtctcactc tgttgcccag gctggantac agtggcacia ttatagctca 60
ctgcagcctc aaactcctgg gctcaagcaa tcctcctgtc tcagcctcct gagtagctgg 120
aactacaggt gtgtgctacc actcctggct aagaataccc tttgtttggc tggctcttacc 180
ttatagaag agtaacagta atagtacagt gctactccat tatcaatagg atatgtaact 240

gtaggtttgt actacactag ttttgcacaa tcacctgtat aatcactggc acatggctct 300
aagactattg ttgcgtcaag ggatgaggtc aatcactaac actgtaaaca gcaagtgaaa 360
cttaagtnac agaaaagaaa gaactgatgc gaatgaaaat tgctgaactc tgctatatga 420
taattctcta gctctccact ttagaaaagc cagaatataa accctcctgg ggatatgaan 480
atgactttcc attttgaatg atctctgaaa tccttaatgc ntcnggatta tattaatttt 540
tcnccctgcc aacntcccca a 561

<210> 9483

<211> 457

<212> DNA

<213> Homo sapiens

<400> 9483

attaacaaca aaaattttatt tctcacaatt ctanaagctg ggaantncaa aactaaagtg 60
ctggtagatt tggctctctgg tgggggcca ctctctggtt cataaaatga caccttctta 120
ctgcttcctc acatantgaa agggacaang caactctttg ggatctcttt tataagggac 180
taatcccat gatgagggt cctccctcat gacctaata ccttccaaag gccccacctc 240
ctaaaacat cacctcagg gttaggattt caatatatga attttgaagg gacacattcn 300
gaccacanct taaggacang ggtttgggn agttaaaaag gaacttccaa ggggaaacca 360
acattactaa ttttagattc ncaactattn anaatttgaa nattcctgaa ncttttact 420
atccattttc cccatanttt aacacaaata atatgnc 457

<210> 9484

<211> 559

<212> DNA

<213> Homo sapiens

<400> 9484

aagtttggga gctcttttta ttacactgag aaatctcaga aacgtacaaa gcccatgaaa 60

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| gtagatgcat | ttcagaaaat | aagataaaac | atttgcatac | atacatatta | atgacatttt | 120 |
| agttttgaat | taaaaatatt | catgattttg | cattgaagca | tcctgcctgt | gaattaagta | 180 |
| cattctgaaa | tactgggaaa | agatttcata | tatcctgtac | ttgaacctaa | attcctataa | 240 |
| <hr/> | | | | | | |
| atggntgagt | tatattctct | ttctananat | taagttcaca | atttgatttg | tagactaatg | 300 |
| gttttattga | ttcnaagtat | ctttaaagag | cagaaatagg | aaacaagcat | acaccacaca | 360 |
| caccccttta | gtttaagtga | tatatcagat | caaagttgna | attaatataa | taatcttttag | 420 |
| tgcttttaat | tgtattgttn | cgttttcagt | agaccaatgg | aaaatacna | naatccaact | 480 |
| gcaaaaaaag | ttaggtaatg | ccggaatgaa | tnctctaacc | atatcngggt | ttttatttcc | 540 |
| cattntncng | attaattaa | | | | | 559 |

<210> 9485

<211> 567

<212> DNA

<213> Homo sapiens

<400> 9485

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| attggcgggg | gagatggtac | tataacttgt | tatttatcag | ggcagatcac | acatttggat | 60 |
| caaaaagaaa | aaccagcaag | tanatcctaa | aacacatttc | ttaacctgag | tcataactga | 120 |
| aaacatanac | tttaattaca | ttttgttgaa | aattcattca | actttggtgc | ttgtaaaagc | 180 |
| acttatgtca | atttttgaca | caaatacata | ccctcagtac | acaggtatct | tcaaaggaaa | 240 |
| caagtcactc | taaagtaata | tttttctata | tgctaattga | tacatcttta | tagcaaattg | 300 |
| aaaattctga | gtaaactgaa | agtatgctta | acgacnaaat | aaatacngca | tatatgggtta | 360 |
| acataacat | ttcttantgt | aaaggcagca | atgaaatttg | tgtctcacia | taaatctgta | 420 |
| aatccagttg | ctttctttct | ggaaatttta | tatagtgtcc | nccatnttcc | acaatgctgg | 480 |
| aaatntcttt | tttggcatca | atctatgccc | aaatttccga | atacntnttt | ncnccaaatg | 540 |
| aaatttactt | ttaaactttt | cccnaaa | | | | 567 |

<210> 9486

<211> 577

<212> DNA

<213> Homo sapiens

<400> 9486

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agtggacatc cagtacaaag aananattcc atgtttgtgg ctcaatgtca tacacttaaa  180
tttcacagtg cctcaagatt ctccaggagg caccacatg ttcccatgcg tntccggtgc  240
tttgacataa ggaatgttcc atatccatgg ccgatcttta cttccataca gttctggagg  300
cnaatcatat ggcacaggga aaggtggccn ttggctcctg gctgccancg aaaaacttct  360
gtttcacttt gaaactgtct aaaaccaa atgctgaangga aagaaaanga acccnanctc  420
ctaggaacgg atcatcacct gggttccatt cctcctccaa tgctcccan gccaccttgg  480
aaciaatttg cctttnnac aaggaaccaa cccatttnc tgaattctgg aaaaaggccc  540
cnattttttc ttaatatatt gccttgcat tncgtcc                               577

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<210> 9487

<211> 550

<212> DNA

<213> Homo sapiens

<400> 9487

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gaagattatt aaattaccac ccngagacca aaaaaaaaaa atagtgaact cactattaaa   60
tgagatgttt ttaaccttaa ctttttttat aatacatata tacataaaaa ctgcacaaag  120
tatgtgtcaa caaatacag tctttaaaac ttaaataatca tttaaacaga cttaattgca  180
tacattttat atacncacaa agtcaggatt ttacatggc agggaaatac tgtggaatga  240
tgaggctctg agganacana tgctatcaaa tgaggactct ggggtggtat tttctaaaaa  300
tggggttctg aaataaattt ttattgtatg tagcttattt tacttctaag aggaacaaaa  360
gatacttttg ggcagccaaa gtatttctac ttctgctta aaacattcag gcnaatgaaa  420
tgattataat aattagggtta gnccttatt aatctctcgg tctccatttc cttatcttcn  480

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taatacccan aaaatttate cttcctttct ccccccancec cncctggcct tcntnaaatt 540
 tttttttttna 550

<210> 9488

<211> 536

<212> DNA

<213> Homo sapiens

<400> 9488

caattcacaa tagattttatt ttacataaaa gaaaaagcct gctgttaatg aaaaatccag 60
 tanaaaacag ttctgcttta agttgaggct caaaagtana agctgcttat tagtgaaacc 120
 tcaataaaaa ganaattttg taanaaaaca ttcttggcat gaaagctcta acataaattc 180
 tgtaatgaaa tatttaccat gcaactttat tggcanaaag gncagtttct gatggctggt 240
 attttcagtc tcttaacaca ttaacatggg aanatactta acctgcttta tttagagtta 300
 attgtatata aatacaaaagt catgatgggc aacctttcca tantccacct acttaattga 360
 ncagttctaa gtangtaatt ggcaccttgc ccttctggtt tcccccttcc cccattagcc 420
 agtctgaatc cattccaaca aactgaaca cagtgatccc tcntctgcca aaaatnataa 480
 ttcctactg tttgctgcnt ccnaacctan aaaaanccgg gctttctggt ggcact 536

<210> 9489

<211> 542

<212> DNA

<213> Homo sapiens

<400> 9489

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 ggagggaacg tactctccca ctggaactct ggggccact gaggcacat tattggggat 120
 ttcagggtgg ctgggcactg caaactgctc cctcctctgt ggtccctgaa aaaaccaca 180
 cgcctgcttc anacgtntcc acgcacacca gtcctcacag acacacacac acatgcatgg 240

aggcaataaa tatgttccgt accaaactgc cccagcctg acgcttcagg gggccccctc 300
 caaaagggaa gggtttaagt gctcaatttt ttctgggggg ggggcaagg gggggcaang 360
 aaattgggat tggaaagcca nactctgtta tctccatttg ctgactaaan gccaatcctg 420

gggtcttccc cnggaaaagg tntgggaaac actntttctc tataacccca agctaccctg 480
 ttttcatgct ggaacccaaa naagggtcnc ccccccaaaa attccctnc caatcttttt 540
 tc 542

<210> 9490

<211> 443

<212> DNA

<213> Homo sapiens

<400> 9490

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 caggccgtcc ccaggatgct ggtcatgggc cagggtcatc cttgcacctg cggcagtagg 120
 ggcagcagcc atgctgaagc accagcaact catagtcctc agantggagc atctggaagc 180
 aggaggggca catggtaatg gaggcgtcag gcagcagtga gcggaagtat tgccacctca 240
 ggggtggggg ccatcgcttg atgaggacat cccggcggct catggagcgc agcaccagcc 300
 ggctcaccac cactggcacg aactctgagc caccttgctc aaagctcagc ttagctgtga 360
 acgggtcctc atctccgatg gagtccttgg tctccactag ccgcagaant ctggganctg 420
 ttnttngca atctctanct ntn 443

<210> 9491

<211> 526

<212> DNA

<213> Homo sapiens

<400> 9491

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 ctacaacctt aaactcctgg gctcaagcaa ttctcctgcc tcagccttgg gantagctgg 180
 gattacaant gcccgccacc acgcctggtc tgccaatact ttctatcagt ctgtcatgtt 240
 tactgtcttt tctccatac anaanttttt ctttctcant tgggtcaagt ccattgacct 300
 ttctgttaca gcttgnaatt ttgtgtctta cgtaaaaaan gtgcccctgc tctcactttc 360
 tgcacaacta tcagggtccag ctcataacaa ttcttctatt tatccatcca ctgccccaaag 420
 aactgcctgg gcattcaatg gcccgcaacc ctnttccanc ccaaaggtaa aactccgggc 480
 cctggggaan tccananaac ancccggaaa tggggnaact ntttgg 526

<210> 9492

<211> 543

<212> DNA

<213> Homo sapiens

<400> 9492

ctttcctttc ctttgacaga gtttcgtct gtcgcccagg ctggaatgaa gtggcacaat 60
 cttggctcac tgcaatctcc gcctccccgg ttcaagcaat tttcctgcct cagcttcctg 120
 tgtagctggg attacaggcg cccaccatca cgcctgggta atttttgtat ttttagtana 180
 natggggtct caccctgttg gccaggctgg tcttgaactc ctgacctcaa ntgatctgcc 240
 tgcctcagcc tcccaaagtg ctgcaattac aggtgtgagc caccatgcc agcttgaacc 300
 acttttattt tattccttct cttccctaaa aaaaattgan gataantctt gccttttttc 360
 atcaaccata ataagtatgg tatccattca ctacttgact gctggaaaac tcaggacatt 420
 tggacaaaat gcttcaaact ggggccaaaa ttacctgtcc ctccaaaaaa ctnanttctg 480
 ggcatacct ctcntttttt ggaangccca tnaaattnaa cctaactcct ttttcaaaag 540
 tct 543

<210> 9493

<211> 532

<212> DNA

<213> Homo sapiens

<400> 9493

| | |
|--|-----|
| atttttaaag taacatttaa tgaatacaca tttataaaag ccatcatccc ttaacatggg | 60 |
| gaaagtgtac aaaaataatg tgaagtgta aaaatttttc tagaatacag gaaacataac | 120 |
| agcagtaaag aagtttagtt taactttttt tttaaatgta aaatagtttg gatctggtta | 180 |
| aaggaatata gttcgcccaa agcacttatt ttcactgtt gtaaactcat tctttctacc | 240 |
| ttaagtaaac tggaggagtc agctgtgtta atatgggtcaa attaatttca tagttttggg | 300 |
| agcagggagg ttgtgggaag gacagaagga gaacttgggc tttctttggt cagctgggtg | 360 |
| ggcttggagc acttgtggtt ggggccaaan gtcaggctcg gaaatgcagc tattatgcca | 420 |
| aaaccaccag aatgctcttt ancttcaggc ttcatagaatt gcttttaact actccggttg | 480 |
| aacattttta ctaagctatn aaaattnaaa ttcctttttc nntaaggnc nc | 532 |

<210> 9494

<211> 568

<212> DNA

<213> Homo sapiens

<400> 9494

| | |
|---|-----|
| gagacagggt cttattctgt tgtccaggct ggagtgtant ggtgtgatca cagctcactg | 60 |
| cagcttcaaa ctcctgggtt caagcaactc ttccacctca gcctctcagt agctgggact | 120 |
| acaggtgtgt ctcatacaca ctggctaatt tttaaatttt tttttgcaga nacagagtct | 180 |
| ccctatgttg ccaggtctgg tctcagactc ctgggtctca ggaatcctcc tgcctcagcc | 240 |
| tcccaaagt ctaggattac aggcatgagc cactgcacct agccaggatc cacttcttac | 300 |
| actatattgt attttgataa tataaantaa aatgcattga tccattggca natanaaatg | 360 |
| aantcngaaa taaaangcat tcaacccac acaaaactaa cctgaggcaa cttctactc | 420 |
| taatgccct acgttcagt cataaaaaat catnacttgg cagggtggga cggaaaatgc | 480 |
| tttttttaa atacnttnc cccccctt attccaaacn taanttttg ttgtataaa | 540 |
| atccgggnaa ttcccccan aaaaaaac | 568 |

<210> 9495

<211> 404

<212> DNA

<213> Homo sapiens

<400> 9495

```
atcctttttt gacatgggag tctcactctt tcgcccagcc tgaagtgcag gggcacgac 60
ttggcttact gcaactccac ctcttggtt caagcgattc tcctgcctca gcctcccgcg 120
tggctgggat tataggcacc cgccaccaca cctggctaata ttttgcat 180
nagggttgat ttcaccacat tggccaggct ggtcttgaac tcctgacctc aggtgatcca 240
cccacctcgg ccttccaaag tgttgggatt acaggcgtga gccactgcac ccggccctga 300
atgtccttgt ttttagaaaa tacacatggt aatatttata ngtnaaaggg tntcacgtct 360
acaacttatt tccaaatggt tcagaaacna accntntgtt naca 404
```

<210> 9496

<211> 575

<212> DNA

<213> Homo sapiens

<400> 9496

```
gtaaatttgt ttaaattctt tgtaaattct ggatattagc ctttgtcag atgggtanat 60
tgtaaaaatt ttctccatt ctgtaggttg cctgttact ctgatggtag tttcttttgc 120
tgtgcanaag ctctttagtt taattagatc ccatttgtca attttggtt ttgttgccat 180
tgcttttggt gttttagtca tgaagtcttt gcacatgcct atgggctgaa tggtattgcc 240
tgggttttct tctagggtta ttatggtttt aggtctaaca ttaantctt taatccatct 300
tgaattaatt tttgtataag gtgtaaggaa gggatccagt ttcagctttc tacatatggc 360
tagccagttt tcccancacc atttattaaa tagggaccct tccccattt cttgtttttg 420
ccaggtttgt caaaaatcaa anaattgtaa angtttngt aataattcng aaggcctgtt 480
```

ccgttcccat gggccaaanc cccgttttng gtaacaataa ccaaaccgtt tttgggtacc 540
gtanccctnt ttttaaaatt ttnaaaatcc ggntn 575

<210> 9497

<211> 564

<212> DNA

<213> Homo sapiens

<400> 9497

attattctgg ctagtgatct atctattttg ttaatctctt caaaaaacca ggtcctggat 60
tcattgattt ttttgaaggg ttttcatgt ctctatctcc ttcagttctg ctctgatctt 120
agttatttct tgtcttctgg tagcttttga atttgtttgc tcttgcttct ctagttcttt 180
tagttgtgat gttagggtgt tgactttaga tctttcctgc tttctcctgt gggcatttag 240
tgctatacat ttctctccaa acattgcttt agctgtgtcc cacagattct ggtacattgt 300
gtctttgttc tcattgggtt caaaaaactt atttatttct gccttaattt cgttattttac 360
ccagtagtca ttcangagca ggttgttcag ttccatgta nttgtgcggt tttgaattaa 420
tttcttaat cctgaattcc taatttgaat gcacctgtgg tcctgaaaaa aaaatgttgt 480
gaattcccggt tcctttgcat nccngtttt aatgttttaa ctncccaata aagttgggtca 540
attttaaaaa naanttncna aatt 564

<210> 9498

<211> 568

<212> DNA

<213> Homo sapiens

<400> 9498

ctttnaattt atctatgaac tcataggtcc ttcacttttc tttgtttgga cattaaatgc 60
tttgggaaag gttttggggt ctgggtgctg acttttgaat cccctgatt attatttttt 120
aaaaaattcc ttatattatt tcgggtgggca gcattatttt atcccactgc gggctcctgag 180

| | |
|---|-----|
| cagggaattt atgatttgct gccanaacat tttgacctgg aggatgttta cgttcccana | 240 |
| tcgtatttct ttttttcctt gaaaaataa tacctaggat gcacactgat tcagcccaag | 300 |
| tatataactg tgggcctaaa aactgatcaa tttgatctgc caccctgtta ggattattta | 360 |
| acagtggctt tagttctctt tttatactcc aaacttcaga cccagtaagg ggagcatcca | 420 |
| caaaaccaat agcttctcct ccttggggaa ctttccttaa aggaaaaaat gttgaaattt | 480 |
| actttttggg ggggcaggaa aaagggaan tctgaatata ctcctacatt gttttaattt | 540 |
| ttgttggant tctttcctt aaaaaaag | 568 |

<210> 9499

<211> 484

<212> DNA

<213> Homo sapiens

<400> 9499

| | |
|---|-----|
| acgtgaggtc tcactccatc gccangctg gaatgctgtg gcgcaatcac agttcatgca | 60 |
| gcctccaccc ctggggntca agtgatcctc ccacctcagc ttctcaagta gctggganta | 120 |
| caggcgcagc ccaccacacc cagccaattt ttgtattttt ttgtaaaaac anaattttgc | 180 |
| cacgttgctc ganctgggtc ctaactcctg ggctcaagct tccacctccc aaagtgtctg | 240 |
| gattataggc gtgagccact gcgcctggcc tatttttcct attcttaaag tatttttttt | 300 |
| tgtttttctc caccaanana nttccatct ttccttgtgt atgttgaggt ttcacccatg | 360 |
| tccancaggg gctctggcct ttgcaataaa atctacttat gcnccanata aaaacattgc | 420 |
| acactaactg gaaaatcntt aaaaaaacnc ctccnctttt ntactttaaa aanaaagttc | 480 |
| ccgt | 484 |

<210> 9500

<211> 513

<212> DNA

<213> Homo sapiens

<400> 9500

| | |
|---|-----|
| ggtggatggt agattatitt aatttgctga tagtgcattc agtatgaggt tgatttttta | 60 |
| caactgctga ttcaaatact gtcacaaaat atttgaaaat cgatctttat gtatcaccaa | 120 |
| <hr/> | |
| gtaacttttc cataagtagt atccacaaat acaaaatcac tgaatataaa ttttcagctg | 180 |
| tattttctga tctggttaca taaatgttct ttgatttaaa ttaagccaaa gttggagcta | 240 |
| aacagatttt ctgcaaccat ttcatcttta agatgaagtt aaagatttgc atttgaaatc | 300 |
| tcccattatt gaattggaag tagcagttcc agttaatgtc cagcatcctc tgaatgccaa | 360 |
| tggtctttga gtaaacadat gaaccttcat cgcttttagt tgtttaagac accacttcac | 420 |
| atgatcagta agtnacaaca acaaccnctt ggtaaattgc catgaatgcc aatcccngtt | 480 |
| tnaaanattt ggggttaaag gataaaacnt ttt | 513 |

<210> 9501

<211> 482

<212> DNA

<213> Homo sapiens

<400> 9501

| | |
|--|-----|
| cttcttttct ttcttttctt tctgttgatt tgatgtcgan gtaagtggga tagtgctggt | 60 |
| tactgggtgt tatgcttggc tccaaaattt ctgactctaa gccaaagtctt ttcaaatact | 120 |
| cttgggtatgc tttcaggga gctgcctcca ttgcagcaaa ctcctttgat gccttttctt | 180 |
| cttcctttgc cttatccagg cttttctgtt taatctcact gatccttttt gccacatttt | 240 |
| ccttatgatt ctttctctt tcatgaaatt caacactctt gaaatgaaaa gagaaaataa | 300 |
| caaaagaaaa ctacataaac atcataaaat tcatagtaaa cataattttc tcataaacat | 360 |
| gagaaaatta aaattaaaat gaatggcaga aaanatgaaa acattaattt aatgcaaatt | 420 |
| gggcccttta atcnaattna atgctnggga actaccttgg ttttaataata atnttcnccg | 480 |
| na | 482 |

<210> 9502

<211> 323

<212> DNA

<213> Homo sapiens

<400> 9502

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acagggataa ataaatcaat aataaataga aagcaagcag cccagtcctt gatccctggg 60
ctgagagccc ttccaccagg cccaagtcca ggangagaca agccctggtc tttgcgctgg 120
gctggccagt ccanaaggct ccaganggan gcaggcaggg tcccggggcc ctcggcgtgt 180
gcaggtctgg ctcaattgtt attcattatc caccaggang ctgggaaaaa cacagtgggt 240
agggtgtccg gggcccnan gtggtccatn aagatncgct ggaangcctt gctgccangc 300
gactgctggt gcctttctcca nga 323
```

<210> 9503

<211> 395

<212> DNA

<213> Homo sapiens

<400> 9503

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aagtanagac aaggtcttgc tatgttgccc aggctggtct tgaactcctg agctcaaaca 60
atcctcccgc cttggcctcc caaactgttg ggattacaag catgagccac catgcctggc 120
ctatcaattt ttctcaccat gacaactgac ttgggtcatg tcctcatttc acacctgcct 180
cattgtgctt tcccatctgg ttctganttc ctctaggatc aaaggaccaa gttcttacta 240
ttcatgttca tatcccagtg ttattgcata taatttcagc tggctgaaaa aaggattata 300
tgtaaactga aaaaacaaca acaacaacaa aaaaaacaca tatctctgct gggnaanaca 360
tgaaactnn gnggaaagat cntnggatta ttacc 395
```

<210> 9504

<211> 558

<212> DNA

<213> Homo sapiens

<400> 9504

| | |
|---|-----|
| cagctttcca acccagctca tggagcttta ttcanacggg antgacaaca tcttgcttcg | 60 |
| ttcttgctgc ccttgaaggg gcaggcccta ctganccata ttccctaaaa acccaatgcc | 120 |
| gaaggcccat ntttgacctc ccactttatt caantcncct aggactaggg ctggggcctt | 180 |
| cctaaaaanc cccctctcaa acctgttctc acccaccac cactcccgtt gtcaggccca | 240 |
| gggaggaccc atgaatgaca aaaatcatnt ngggatattc cctgnactgg gaatcccctg | 300 |
| ccancttcaa ggacatntcn tctgacacag gganaactga catctgtcat attcttctgc | 360 |
| ctcacgttca cacacacaca cacacacag catacncact cttaggcttt caaaaaagga | 420 |
| atttatntgg caaaatttac cnetggccct tttccccccc ccctgaaaga atccctnnaa | 480 |
| aaatnaactt gcccaanggg gcctcnttct tggttgccc aaaattgccc cctgggccc | 540 |
| acttatttta acnctttt | 558 |

<210> 9505

<211> 465

<212> DNA

<213> Homo sapiens

<400> 9505

| | |
|---|-----|
| aactgatgaa ttctggtgat attttattta gaaaaagata atcactgatt ttaanatctt | 60 |
| aatttttctt tcttgtaa gctacactaa ttagacgtaa gatagtatta gataataaaa | 120 |
| gtatttacac attgaatata aaataaatat aaagtaactg aaaaacaaat caggtttcca | 180 |
| ttgacttatt ttgttttccc actgtccatc ctctgtttca tttttctttg ccttttgtaa | 240 |
| atccgtttct ttcttgcttt caaatcaact tttggctctg gttttaccca ctgtatttct | 300 |
| attggtttct cctcagctgg tgttacaaa acatctgcag tgggatcatg tggaaaaaaa | 360 |
| ntcttcggct ctttctttct cagtttttgc acatctttca cttgctgttt ctctctgtat | 420 |
| tttgcagctg tgatgggatc ttatgacacg ccgatgctnn nnnnn | 465 |

<210> 9506

<211> 548

<212> DNA

<213> Homo sapiens

<400> 9506

gtaggcattgc anatatttta ttgctgaaaa ttacatttc tacatttgaa naaaaaattc 60
tctgacctat gacctgtggc caagtctgag tagcctgtgc tttcgtttgt ccacgtgggtg 120
aagtcccaca gcctcccctg acactcaggg agaatcctct tgtgaatcaa atacaaaagc 180
aaacgtttgt tttgtatttt catttatggn tgccttaact tatacaanaa ataggcaaaa 240
agtcttaatc acattgcttt gagcgtatgt aacatcttta aagactgtta attgatgtca 300
tactccttaa tctttaaaaa taccacctg aggagganat ttgtagtttt acccccatc 360
tacaaaaata aaaataaaag attaaatcat atacacaaag tctagaanag gaatgattag 420
ctttagtgtg cttgttttaa tcaagcatga nnaaaactaa gctaattccn tacattgggg 480
actgaagaaa atntnttaat taatttgggc ncattacaat ttgttccatt tgggccaaaa 540
aaaactan 548

<210> 9507

<211> 585

<212> DNA

<213> Homo sapiens

<400> 9507

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tcccaaaggg tttcccagca ntcacttcan antctcctgc agantcacca tcaagcanac 120
ctcttcctcg ggangccgtg tcgccacccc aacccttgac ttctggtatc accatctcct 180
gtcacctggg ctccagtctt tgtccgatgg cctcaacagg acatcaaagc atanctacca 240
gtttgaangt gccctcaggc ttggcaggaa ccacgtggac aaaagtcttg taaaacacag 300
cacccttggg cagcctgggtg atcanatcca cagcctccgt gtttctggga tgangcacgt 360
anacctcctt agtgtancgg actatccct cttccagggc atacagacat ttattcttcc 420

caacacccac ctgcaacaca caaacctggt cactggtcan ctggtcatta aggtgtcent 480
 cccaaaattt tggganaaat tctcacaca aaaccgggcc ctggggcnaa aaggttatna 540
 aaaaacncn ctcaggtttc ctttccnct gggttaacaan ttcaa 585

<210> 9508

<211> 530

<212> DNA

<213> Homo sapiens

<400> 9508

ctttccttct ttttagagan ggagtctact tctgttgcca ngcgggaatg cagtgatgtg 60
 atgcagctc actgcagcct tgaattacta ngntcagggg gatccttcta tgnaccagg 120
 attcaggnnc aagccactac acctagattg catatttctt ttataactta taaaaatttc 180
 agctatatta aaaaacagaa tagtacaagt nttccatcag tcagcttcaa atttaccaaa 240
 atcagagcca gtcttggttc atttgaacc cctccactc aatatgaatt attctgaagc 300
 aaattccagg cattttatca tttaatccat aaatcatagt atctttaaca gataggtttc 360
 aaaaacaacc acggtacat tattcatgcc taaatgaata attccgcact gtcatacaat 420
 atccagcgta cacatttcct ggaagtttcc ncaaagattt ttaaaattaa cttgtttgaa 480
 tcaggatnca aataaaccn ttgcncaat tnattgaaaa atcncccaa 530

<210> 9509

<211> 283

<212> DNA

<213> Homo sapiens

<400> 9509

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 agcgatccgc ccgcctcggc ctcccacagt gctgggattc caggcgtgag ctaccgcgcc 120

gcgggggtag gggagcgggtg ggaaangggg gtgggcnacn actctnatan anggaaaaga 240
ggaanggaaa gttggggcctt actgcagggc aagctcctta gga 283

<210> 9510

<211> 454

<212> DNA

<213> Homo sapiens

<400> 9510

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agcccttcct cagaccatg gtccatgaca aggggcaggg cananggggc ctggatggga 120
ntccttgttg gggaccaggc aggggacttg gatcaacaag caccagacna ntggcggggg 180
caggcgagag gctcantggg acctccacc tcgttgcccc agctggtggc tgaccangtg 240
gctgtggagg gtcaggagct gccccggatc ctctccatgt agttgcgaag ctctcaggg 300
tccttcagcc ccatgtctc acacaccag cgatgtcct cctcgctgc cacaaggatg 360
gactgcacag caggggcccc tacaggtcc tcaggtgact gggctggagg ggctggcgca 420
aatgtnnaaa gtctantcnc tncngccgcc ccna 454

<210> 9511

<211> 568

<212> DNA

<213> Homo sapiens

<400> 9511

agaactttca taacagatat tcaatacctt tattatcagg agaaagaatg atcaatctat 60
aacattccca aaagtacaac tctaaaaatg tcagttttgt tcatatagga ctcccaactt 120
taatgatata cccatcntac agccaggaag cagaacaatc cctccagaaa aaaagcacia 180
atgccaagat gctctecnac cacaattttt ttaaattctat gaaacaattt ccttaciaat 240
taagtagttt ttatagtagt gacatttgtc attgatgtga tctgtttaat atgactgtag 300

taagaangaa gttgggcctg ttactgtttt cagaaattga aaagagtacc atcnttaaga 360
 taaggaagan aaagatttgt atccatcttt ttgggacatg ttnaggtgag agtgaantgt 420
 cccanttggg agaatttgtg gatattgctg gaanaattgg aaatgcnccc tattagccgg 480
 gtantcctct ccccaaccg ctgttttggc cnaaatttg ccccaaattg ttttccccn 540
 ggggtttttg acctggtccc ccnaaaaa 568

<210> 9512

<211> 560

<212> DNA

<213> Homo sapiens

<400> 9512

aagaggtcat tttagcagtt ttattcaaca gatgccataa attaactaca ttcaggaaaa 60
 aaaacttaaa caaagaacaa agccacccta tctagcattc tctcactcac aaagaagtat 120
 caaagatatg tttatgttcc attaaccgag tatgaagcaa aatcattaaa atattacaac 180
 tgctaaacac agaagactag aaatcaaata gtttcataatc cagtatacag gcatcaaaaa 240
 cttcaatttc cagctgtttt ttttttctaa ttcatatcat ggatttactt acaaggagct 300
 tattectatg ggattaattc aattactcaa tggtaaataag atttttagctc agaattttta 360
 aaggatgact tgctttaagt tactattcta cgtgctgctc tatttctgct cacacttgca 420
 tgtggccaaa cagatcatgc tctgatcaga taagtatact gtaatctact tatatgttta 480
 ngaattggca tagggttaaa aaggcccaaa ccgttnttta atacncattt tcctaataac 540
 taattgntta ngnactnctt 560

<210> 9513

<211> 593

<212> DNA

<213> Homo sapiens

<400> 9513

| | |
|--|-----|
| atcttaaata caatcaaaac ttcattgttta atagggtatc atctgtttcc catacttttt | 60 |
| acatgttcag ttcagacaga actcatggaa gaaaagactt ttctgtgaga tanaacagac | 120 |
| catctgcttg accggatggc tctgaggac agccaaactc ccaatggcca aagggtgtg | 180 |
| aggaanggca acacgtatca naaaaatttt cagcaagggc tgaaacacag taaggttagc | 240 |
| cacaaaatgg aatgagagaa gccctaacc aatgggagtt tgcctaattt taatgaacc | 300 |
| aaactctaac attgtactgg aaaagcagca ttaaaatcca gcctgattat cacaatttac | 360 |
| agaatttctc accanangcc cacaggtgaa aaggctgctt actctaaagc ccttagaacg | 420 |
| tattgtgaac tgcgcatgcn aaggatctag gttgcgtgct cttatgana ctctaagcc | 480 |
| tgatgatctg angtggaatt ttctccncc accaccacc cgctccttgg aaaaactntt | 540 |
| ttccccaaaa ctggtncctg ntccccaaaa aggtttggga acgccgcttt taa | 593 |

<210> 9514

<211> 486

<212> DNA

<213> Homo sapiens

<400> 9514

| | |
|---|-----|
| anaatttttt gggcatattt accaatgtca tgtattctga acaaaggcaa aaaatacaaa | 60 |
| ttcctaccat taaactggct tggttgttgt ttgggttga ntaactgtgg gggcttggg | 120 |
| aaaggtgtcc tttctttcta atantctcat gtcgcttag gtcaactggg ctggcttaca | 180 |
| cgcgctgtgc ggtcttcatg gaaatgggan ctctgtntgt cagcacagga antggtctcc | 240 |
| cagcggtcag cctgaancag cccaagtcct gtaggtgctt gccgtctctg aagccccagg | 300 |
| aacatcagt caanaaggaa aaaactgctg gcaaaaatna ctccaaggc tgttctccgc | 360 |
| tctggtggga caacctgggt gctggcccca aggggctcct ccaaaaanat gtgtgtgacc | 420 |
| tggcangtgt nantngcacc tgcanaacca agttctgccg tganaaaaga agaaatgctg | 480 |
| tagttc | 486 |

<210> 9515

<211> 562

<212> DNA

<213> Homo sapiens

<400> 9515

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atagcacaat ggttttattg acggcagaag aaaaattctt cttttcactt gtaaaangta 60
tttgcttaat ttaactcagt atttttttcc attctttgtg tgagttgact gttttttcca 120
ccctaaaatc tgttttttct ttcttcaa ataatatcc accacagcta cttattctga 180
aaaaaaagtg gaaggctctg caacagggtt ccaccagggt gtttcagtca ctggctcgtt 240
tcttcacaaa nagtctactt taaaaagaaa tgaanaaaat gaaattgaag cctcaaatta 300
acttttccat actttgtcaa gatacatctt tgctgaaact tatctgtaaa tgtgaagtgt 360
ttgtataaat agatcttaac tanaattttg ggatactgct aatttggtta caatcttata 420
aagccatatg aaagaaaaaa nccaattttt ttgaaaataa attttttttt ttanactttg 480
tttaaattct ctctgccncc gtnataccac ttattgctgg cggttnattc ccgaatttgg 540
ananccaac tgttnttttc gg 562

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<210> 9516

<211> 609

<212> DNA

<213> Homo sapiens

<400> 9516

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atatttcttt tcctttttat aaacgataaa caaaaatcat caaaatcatt tcagcaaaag 60
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ctgttggttg gtctcttggt taattttaaa tttagcaata ccatctcaaa cctggancaa 180
tcctggaaca gttaccagga tcaccttttc cttcaatcc ttgtggcttc tgggaatctt 240
canaacctgg gtctgaaagg tgtttcctac atgtctcagg gctggatgca aacctggctg 300
gggacctgag catcaactcc catttagaat cagacatctc cttccctgc aaatgtctac 360
aactaccaa ttgctcccca acagttagct caatggattg aattgcaga accaactcct 420
aaaatgggga ctgcctggcc atacaactaa naaaaaaaat cnatttatag atgcttataa 480

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ggtgacacct aattaaaaaa tattagctnc ttccatatna acccaaattg attttgtgcc 540
caaaaaaacc ttttccccnt ttaccncact tttcccctga aaatccccctn aacccaaaaa 600
actccccc 609

<210> 9517

<211> 552

<212> DNA

<213> Homo sapiens

<400> 9517

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taatatccac tctatgaatt taggacctac tattactccc attttaaaga taagtacacc 180
gaggtttacc aagattaact gacttgccaa gggtcacaca ctggagtaag ggcagaacct 240
tanactcatg tctgaccctt cgccccatgc tcttaaccac ataatgcat cttttatttc 300
agtacaana caaaagcatt taggtcacac tcttggtgtt aaacaggaaa attatataaa 360
tgcnaattgt ttaaaatang ttttgattt ctttttganc aaaccccan tcctttaaan 420
gatatactta aaatTTTTTT taagccgaag aaaattnact actatttacc atgacaattt 480
tnttaanttt ttaaaaccaa aaggttttta aaaatctgcc tcccaggtgn aaaanttttc 540
tttggtccn nc 552

<210> 9518

<211> 610

<212> DNA

<213> Homo sapiens

<400> 9518

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cagcgtcaaa ctactaggct caagggatcc tcccatctca gcctcctgag tagctgggac 120

tacaggcaca cagcaccatg ttcagctaata tttttaattt tttgtggana ccgggtctcc 180
 ctatattgcc cangctgggc ccaaactcct gggcccaagc nagtctccca cctcagcctc 240
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anaacaaaaa caaagtgagt tctacttgct actttaaaagc accacatgtg aatattcaat 360
 gatgtttcat tgcaaatgg aaactaaatc ccatttgtca attttggtt ttgttgccat 420
 cgcttttggg gttttaanan atnaantcct tgcccatgcc tatgttctga atgggtgtgc 480
 ctaaggtttc ctcnagggtt ttaatggtt ttaaggtcca anatttaatt ctttaacccc 540
 cctgaaataa attttgtttt taggtttagg naaggatcca tttcnacttt ctncatttgg 600
 tagcccnttt 610

<210> 9519

<211> 597

<212> DNA

<213> Homo sapiens

<400> 9519

gcagttacaa catttaccac tttattataa aggctacaac tcanaaacag ccaaattggaa 60
 gacatgtntn ggacaaagaa agatggtagt ttgcatggat ganataaagc ccagggggac 120
 agggcagcta cacatgaatc caaatagtct aatctccaaa aggaacagag agtggattca 180
 tacaacatac caagcccgcc ccctaaatgc atcccactca ggtcacttat aaagctccaa 240
 ggatgggcca agaacacaag ctctacacca gggaaacttg gaggcacag aaggacagaa 300
 taagacccag gttcataggg gatgaaaaat cgaacagana accatctcag ggcatttgtg 360
 aangtccaag gatggagana anaagtgtg gcttacaagt gggatgaagt ctgctatacc 420
 acaatggaag ctgaagctan canggaacaa ctattcctct ctgaancagc tgcggctttt 480
 tgcaaatcca ttattgtcac gtcctcctat gtcttcncc ctgccctaat tccnccatct 540
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<210> 9520

<211> 623

<212> DNA

<213> Homo sapiens

<400> 9520

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 caagggtttt aacaaaacca aaatatacct ttttatacaa tatatgtata tattagcagc 120
 aaactacttc tgagattctc tttcttttat gttcttctag ttatttttaa gaaagcataa 180
 acaatgtata ttagtatgga atgtcagcaa atccactctt agtcctttat tctgtgattt 240
 gggccttcta caaaatactt tgtgattctc actaatgaat attaagaaca tacccaattt 300
 taactaaaaa gtagtgaaac agtggttggt agaatctttc tcactatata acggtcacac 360
 attatatttg agaataacaa atgagcacca tataaacagg taattgtgtg tgtgtaaact 420
 caatttttaa ggtgtaatag tagccaacta gataacttag cactgtgact atcacttttt 480
 aaaaatttgg tgatatacaa aattttaaac aaatcagata aacactccac ccctatgctg 540
 tccattaaaa aancctaata aaaatcctat atataaccga caactgcata ccccatnttt 600
 ntttttttnc cccaaattnt tnt 623

<210> 9521

<211> 566

<212> DNA

<213> Homo sapiens

<400> 9521

gcatgangcc aatactgtta ttgttcacat ttacagagc aagaaacana ggcagcgagg 60
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 aggtctgtct tgttctaaag cttgcctttt gtaactcctg cacattaaac aaataatcac 180
 aactaatttc ttaaataatt acaanaaanc caagtgtttt gaagtataaa tacaaggggc 240
 taccgaagca taaaatggga attggaaaaa tacctacctc acccanaatt attgtnagaa 300
 ttaaaaagca ctcatgtgtg cactttgtat atcaaaaaga actttaaaaa tgttcagcat 360
 tgtcaaactt tgnccanga nanatantct tatctggaca ttcacacct tgaaatttcc 420

aaaatgttaa acgccctctc ctgaacagtg caatancctt ctgtatacct ttgggaatac 480
 tgacaaanaa taatgaattt taaattttta aaaatctaca ttccgactg ccactccaaa 540
 aaantttccc tccgaatcct aactgt 566

<210> 9522

<211> 574

<212> DNA

<213> Homo sapiens

<400> 9522

gaaggagaaa ggctttaata atattaaaaa taggcaaggt aatgcttttc atagtatagt 60
 aagatttgcc taataccatc ttatttcttt gattaaaagt tacttagctt cagcatgcgt 120
 gtacattcaa aatacaaaat taaagcatga gttgtcatta atttgcagaa ttctatgatt 180
 gaagcctcta aatgaattgt gcagganagg gagtttgtaa acaactgact acagacattc 240
 acattgggtc atctttaaaa agctggactc tgcttttggg tgcttctcgg aggcgagttg 300
 gattttggac tgaagtactg tcgttcatt cttttttttg aggtgttatg antggggcta 360
 taacatcgcc atcctgcggc ttggtgaaat ttctgtctgc acaccactga aacaaaatat 420
 tgtcttgagg catacaaaact ctttctgtcc accttcttac aatatactcg aatcanctgc 480
 tctgcaaatt tctctggcan aantgtgaa acctggtttt aagtaatcct gatgctctgt 540
 tgggggcagt cttncataaa accaacttna tcat 574

<210> 9523

<211> 558

<212> DNA

<213> Homo sapiens

<400> 9523

ccctgaaata gaaatttaat atttggacaa aaaactgtaa acttttggtt acattcaaaa 60
 tacaaccttt taaagactta aattgaggtt ttagcaactg gagctcctaa cagcagattt 120

特平 1 1 - 2 4 8 0 3 6

atattactat gatgttttaa aaacatgata attctaaaca gtttgtttct cttactctga 180
catttactac caggaggaaa aaaatggctt cctgcaattg acagtctggg taaaggaatt 240
gctcaggtgg acaatccgac cctgacttcc accttgactg cgttccacaa tcacacaagg 300

tatctgtact agctggaaag gactcttccc gtctctcaat gcctgagtaa ggtttaanat 360
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cttaaaaant tcataaaaat cttencataa atcttgccca aatttcatnt caaaaatata 480
tggtaaaate aaatttctta tttctncnaa aaagggaact ttggcttgaa gaanccaccc 540
ccnttnaaat gaatttnc 558

<210> 9524

<211> 594

<212> DNA

<213> Homo sapiens

<400> 9524

gccattgaaa caatcattta cttcaagcat tccccctgtt aatcatcttc accattaaac 60
taactgaagg aaaaaatgga taatttacta atcatgaatt ttgtcgacaa acttcccata 120
aaggagaaca agtgagattt taataggaag ataaaagact ctgccagaag tatTTTTTTT 180
TTTTTTTTT gagacanant ctggatctgt caccagggt ggagtgcagt ggancgatct 240
cggttcactg caagctccac ctcccagggt cacaccattc tctgcctca gcctcccgag 300
tancgtggac tacaggtagc caccaccagc cccagctaatt ttgtgtatt tttagtaaaa 360

<213> Homo sapiens

<400> 9525

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ggctttaaat aaagcgttta ttgattagta naagcatgaa cagtgtgcat aatattttca 60
atacaatata agggagggat gatgggaacc cctccttcac tcaggacact tcccctccgc 120
anacctgcac gttctgggcc ttctcattt caccacagge ctgcccaccc catgaggcac 180
cccctaaatc tcattctctc acccagcacc cccagcctgg ctccagcctg aaaaccctc 240
cttccccttc cctccaaaac agtggggaaa gcgangctcg gtccaccctt aactgcggaa 300
agancanggc cangaaggca cantgctccc tctcccggtc ctggcccaac cactccttgg 360
gtnaattggg cggaaccac tgggctcaca ccaacttttc acctccctct ctcnnnaaa 420
ggatggcncc cccctnangg gatgg                                     445
    
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<210> 9526

<211> 392

<212> DNA

<213> Homo sapiens

<400> 9526

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aaacctgctt aactttattg gaactagctc agttgattac agaattgggt cacaatcatt 60
    
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<213> Homo sapiens

<400> 9527

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gtcaaaacaa ggatctgctg gtgatgcttc acagtgaac ctccattacc actgagaatg   60
tcacttgga aacattctta anaaatgagt ctctttctca taggctcaat ttcaggattc  120
tcaaaactca tgttctgctc agaagtttcc atgatgaanc ctatttgtct ctgaggctgg  180
ggctctgcct ttanacttat tctgctccag tcataggttg tggttgtctt tgttcttggt  240
cagaacctgc aagtanactt catgaantgt nctgangaac tggaatcatt ctttattaaa  300
tgtattaatg tttcccgga ccgaaaactt gctgaanaat aatggaaagg cttcctctna  360
cttctggng ttccantatt tnaaagaaa aggggaactg gcttcnctc aaggtcc   417

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<210> 9528

<211> 390

<212> DNA

<213> Homo sapiens

<400> 9528

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attgtggtaa taaacacatg acataaagtt taccatcttc accatttttc agcgtatagt   60
tcagtagtat taagtatatt cacactgttc ttigcaaaac taaaactcat ttccattccc  120
ctccccaggc ccttggtaac caacattcta ctttgtttcc ataaatgtga ctactttaga  180
gacctcatag aagtggaatc accccatatt tgtcttctta tggntgactt atttactta  240
gcataatgtc ctcaagggtc ntccatgctg cttccctgat ttigattcta gagctcttat  300
ttcctactac tttcccta at gaaatgtact ttaattnggg ctatttinct tangnttttt  360
tnaaaggat tttttcnggg gngaaatcct                                     390

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<210> 9529

<211> 327

<212> DNA

<213> H

<400> 9529

| | |
|---|-----|
| aagggtaaac aagctttatc ccacataaat ggcaatgcag atataataag caaatgatat | 60 |
| antaagcaag ttgcaatggg aagggganaa aggaaaanaa atatatgttt ttatactccc | 120 |
| cagactatgg aggattcncc accagactgg gaagcaacag caacagcctg ggctcganan | 180 |
| tcggacactg cactcaccaa actatggcgg attcaccncc agactaggaa acaacggcct | 240 |
| gggctccaaa ntgcggcact cgtccgtgca canacaaaga naggtctcnt gaagcttcng | 300 |
| cacaatctag gaccnancct cttttgt | 327 |

<210> 9530

<211> 528

<212> DNA

<213> Homo sapiens

<400> 9530

| | |
|---|-----|
| cttaaaagat actttttttg ttcaattcct ttgtaaaaac attggtcacc atttaacata | 60 |
| catggcaaca aaatgcaccc aatttacatg catcaacaag ttaataaatc ataatacatg | 120 |
| gacaacacaa atttaaacaa acaggactaa agtagctcat gttgcattta actatgggtc | 180 |
| ttgtgctcct aatagagaag tagctaatat gagaaacaaa cagttccagt ttcaacctaa | 240 |
| attaaagtta tttgtggcaa gtaacatgaa acaatgatca tatgaagtca ttatcttaaa | 300 |
| aagaaccatt cttcagaaat cactttgtgg caaagcacca tactagggtg gactatgatc | 360 |
| ttaaacadat accttcagtt aaagacaaat ggtctccatt ttttgaaaat tacctgaatg | 420 |
| attccaattt ttattatgcc ataaatttta tctttccatg ttnaaggtat ttttttgacn | 480 |
| cctnaattat tccngaaaaa ttcnatttaa ccattantcc cngggacc | 528 |

<210> 9531

<211> 602

<212> DNA

<213> Homo sapiens

<400> 9531

| | |
|---|-----|
| cggtcttttg tttatcaagt tttaatgaaa ggatacaact gatgctactt tacaacatga | 60 |
| <hr/> | |
| taaacatttg caatgtccca aattactact attgttacga gaataanatt gctcaggttg | 120 |
| ctaaaaggaa tttttaagat atttctctt ttggttgatg tagtacctga tcagagttct | 180 |
| aaactaccgc ctaccaaatt tttctttgaa aaatctacct ttatatgtga aattaatata | 240 |
| cacatatatt ttaggtaaca gtaatttaca ggtttcttta ttaaattagg atctttgcat | 300 |
| taagcccaac tcatcactga tcaacatatt tcatgctgat aagcatttag caaaatttga | 360 |
| gactgatatt caataatatg tattaaatca gataatctga atgctaaaat agtttggccc | 420 |
| ccggaattat agttantttt aaatgaaaaa aaccctttt atccggccca ttggcaattt | 480 |
| taattttacc nggcanaatn cccccnaaa ttttttatgg gtctttaaaa aacaccggcc | 540 |
| tcccccttcc ctgatttccc aatttttaac cctttnttgg gnaaangaaa anaaccctt | 600 |
| gg | 602 |

<210> 9532

<211> 485

<212> DNA

<213> Homo sapiens

<210> 9533

<211> 516

<212> DNA

<213> Homo sapiens

<400> 9533

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aaaatttcaa atatatttta ttcaaaattc nccatttang anaaaagana tataacaatg   60
tttacacatg ctttaataac ttatttcact gtacaactta cattctgtat aacagtacaa   120
taaaccagcc aaagaaaata accagttagc acttaataaa gaatctacca tgtaaaaaac   180
acagtatggg acactacaag gtagtattta tatatTTTTT aaatgactga gctacagtac   240
aacagtcatc tagttcagtg gttgtctaaa acatcaagct gtccacatct ttctgattca   300
tgatgggaaa gctattatga cttttcacat tcgaacatgt cattttgttg tgtaaatttg   360
gtgggtgggg ggcagaaagg ctctattacc tttatccctt tcttataaat atattttccc   420
ntttatatta ctccnnaat tttaaataaa atatttaatt gtgtttgggt tacnaccaag   480
ttcacattgt gttnaaaata tattaacctt tntttt                               516

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<210> 9534

<211> 472

<212> DNA

<213> Homo sapiens

<400> 9534

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aaccttatcc aacttcagta ttatttttagt agtaatgtgt ataaaatcca accactgctt   60
gggtgacctt aggagacagc aagcctaaga gatgaaaaca ttacacctt ttaattaaat   120
tacactgtca ccacataaaa gtgtgagggt caacatttgt tttcttaaaa acagagcact   180

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aaattat ttt ctgaaccaa tgtgttctac cttaccctan aattaaatcn ctgggaaata 420
cgggcaaaaa acaaaactccg cntgtgaaaa caatnggctt ntcccnctg ga 472

<210> 9535

<211> 488

<212> DNA

<213> Homo sapiens

<400> 9535

cctcaaattt tttttttatt gaaaaaaaaat ttcctattgt aagttttggc aaggatttta 60
tttggctaata caggcanaaa ggaaattacc cttcaaaaana cnattttctt taaaaattat 120
gcactcctgt acaatctttc tttttatcca aaaaagggtc tcatattatc tctatgacct 180
catctcctga aattacatta aaatgtttat tacaanac tttgtaaaaa caaatgtaca 240
accttatgga tatgttcatt caagggtgaca aaaatatatg caaaagggtc ttcactcttg 300
ctttctttgt aataaanaag tgaaaataat cttgtagtcc attcaacagg ggactaattc 360
aataagttaa agtatactcc tacaatggat tatgcagtaa tttataaaaa aatgaaggta 420
aatctattta aacncttatg gaaaggtnct tattantatt tantaatatg acaaaaantc 480
cccncccn 488

<210> 9536

<211> 499

<212> DNA

<213> Homo sapiens

<400> 9536

gtgggtggta tttgtttttt aatctccata gtgtatttgt taagtttatt tataagcaga 60
tcacttcact atttacagta catgagcata gagattctac agtttctgtg atgtaaaca 120
taaccccaca gtgggagttt gagaaaagaa gccagttctg aagtatttac agacattaaa 180
atagaacttt atactcacag aataataata catagagcaa tttggttaaa ttatctagga 240

aactatagaa tctgacaatg tacaatatac agaaaacatt ttctcattta gaaggtaaga 300
 cagagaaatc acaccagaaa taaaataggg acgatgacna ccacaataat taaaagcaaa 360
 gaaggttcct ccttgcctct tacggataaa gtatttatat aaataaggac acaacccaac 420
 aaaatggaaa aaatatataa aaatcctcta ccaatnaaaa aaaatagcna aactaaaact 480
 ngatcnnnat cattacnat 499

<210> 9537

<211> 548

<212> DNA

<213> Homo sapiens

<400> 9537

gagataattg aaaagtttta ttataaaca cataagcaaa aaattcaatg cagtgggggc 60
 agaagtgtgt ggatgacctg ccaaacaata agtattcaaa ntgttgantg agggangtga 120
 ggttgcaact atctttctct agaaaagaan agaactgggt attcatcaaa ttggttaaatt 180
 tgaggttcgt caaaaagttt ctacagatac agctgaatat actaaacatt gctctattat 240
 ctgttgaatt gctgtatttc actttttcag catttgggga tcattattta attgaatttg 300
 taaanacga ttttccanac aggtctctgt tcttccatga acaaatgata agaaacaatt 360
 tgactcctta tatgacaatg gaattaaata aattgacact cntctaggaa taattctcca 420
 tcntctccat ctctaaaatt acccctgcc aacaaanaat tgatctttct tccccaaaac 480
 cccttggtta nannatcttg tgactcngaa tgccaaaata attaattgaa cctncagggg 540
 anatttct 548

<210> 9538

<211> 580

<212> DNA

<213> Homo sapiens

<400> 9538

ggatgcatgc tgggggagga aagcatattg ttgtagtca cctggcgtg ctaaggtata 60
 ttattcccca gtaattctct caaggtgggc atatgcaaaa cataatctct aaattcttca 120
 atactaagaa atacctttgt ttgccccta aaatcaaatg ccattttggc tggatatagg 180
 attctaggat taaagccttt ttccagcaga actttgaana cattgctcca tttacttcta 240
 gcatccagtg tgtccagtga taagtctgct gtcaacctga ttcttggtcc ttggtaggta 300
 atttctcttc tctctctaaa ancccttatt attttctctt taccactana attccaaaat 360
 ttcaccaana tgtntctaag aatcatctct ttcatcaat ttactaagt actcnacaan 420
 cactgacaat ctccanantt gaacctttct ttantttctgc caagtttctt ccattaattc 480
 cttaaataatg ttcnctgccc aatctcataa ctccncttt ccggaatccn aaccaaacia 540
 atttgcaatt cnaaattctc cccaaatccc ttggccttcn 580

<210> 9539

<211> 572

<212> DNA

<213> Homo sapiens

<400> 9539

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 agctctgttt tccaggattt gtitcaatat ttagagctcc ttttatcagt tcttgtagt 120
 gtggcttggt gtgaattatc ttggcatttg ttgtctgaa gatnactgta tctttccttc 180
 aaatatgatg cttagtttct ctgtatacaa aattcttggc tgataattgt ttgttttgag 240
 ggggctgaan atagggcccc aattctgtct taactttagt ggtttctgct ganaaatctg 300
 ctgttaatct gatanatttt tcttttgtaa gttacctggt gcttctgtct cacagctctt 360
 aaaatggttt cttttggata acctgatgac agtgtacct agtgaanac ttttgggtgan 420
 gaatttcccg ggtgatcttt gtgcctcctg tatttgatg tctaagtctc taacaaggcc 480
 agggaanttt cccccattat cccccnata tntttccag ccttaaaatc nctcctcccc 540
 ngaacatgaa taccctaagt ttggtgttna ca 572

<210> 9540

<211> 383

<212> DNA

<213> Homo sapiens

<400> 9540

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agttggtgtn aaggaaaact tctganctcc gtcagttcac ctggtacatt ggaattaaag 120
tgcttgatg tttttccccc actttaaaaa aacttttgag gttttttttt ttttttgtct 180
tttaaaaaca tcgtaacatt aacacatggc cggtcacctt cccccaacga tggganctgg 240
cctggggccc anggtcctcc angatcttca ctcatcaca gtaacggttc tgaccaatcc 300
tccaagtccc acgtggatgc nacaagggtg gggaaggga gaaaaaattt ctttccccct 360
tcnnaaaaaa aaaaaaaaaan cnn 383

<210> 9541

<211> 509

<212> DNA

<213> Homo sapiens

<400> 9541

cattcggctg ccgaaaagga ataaattact tcttccana atgctccgat cagttacgtg 60
ccggacgttc taactgtacg cacttcctat ttacatatct ccgcccactc ctttcgcca 120
ggcacctacc gtagtaacca aaatagaagc gataccaagt atcttacggt ctgcaggact 180
anaaaacagc gttgtttttt ttttattcag tagttcagcc atctcaattg tcccctaaaa 240
ctgtatataa gtcttaattgt tactacaaa catattttat tacaaagcac taaatacaat 300
gcggataatc ccagactcaa gacgnatta ttccaacaca tctctccag canaancagt 360
ttccgagggg aaaaccgaan cctatgcctt ctttcttcca agaaatacaa acggncttg 420
cccctgtngg cttcgtcctt angttcccgat catgaangta atcaaaaangg ttcttttcca 480
cccaaaaacg ggacaaataa anccnttca 509

<210> 9542

<211> 461

<212> DNA

<213> Homo sapiens

<400> 9542

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ggantagcca atatccattt ttgagtttnc tcaaacaaat aataaggata gcaaactagg 120
ataagaaaac acattagaan acagccttct acttcgtaca acttctagtt accttttcct 180
atccattcac ctacttctgt tcagcagcaa naaaaaaaat ccatttattt ttgccttttt 240
ggatttttcc aaaataaact tcatttacct gaatacaaac aaaagctagg gagatggcct 300
ttatnttggc ataaaccaag gacatntctc acaaaccagg aaaaccctgc ctcgtatggc 360
ttatnttgca gtttggagtc caatggttat aaaaccaant gaaantccaa caatntccca 420
aatgacncga attgacnnn attatgggaa accctgaatc c 461
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<210> 9543

<211> 540

<212> DNA

<213> Homo sapiens

<400> 9543

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ggggtctcan ttcactcttt ccttgtttat taaatatcaa ctttcctgc ctaatgggct 60
gaggttcatt ticcatttcc tcagggttaag ggtngactac ctangaactt attgcatctt 120
taggccagct ggcttantgc tacccatctg aacccccana ttactacca agtcttcctt 180
ttgccccttc ctgccctaac agcaagtncc aggccagtcc cttccccanc aaatgccagg 240
ggcttcatgt naaaaagaac tggccacaan gctgaaaggg aagaagaaaa actgtttctg 300
cangaaaaga naacaatgcc tccaagctct tgggcatctt cccatttttc taaataaaga 360
naaactcaac tctggaacct ctggtngcaa aaaaaaagaa gccgggaatt tggcctgggc 420
ttcaaatacc ctgttctgga tggattcccc aatnanaaaa gncagggtcc tgggaactgn 480
```


aatccccag ggccattncc aaccctttcc cttaaaaggn gnggcatgcc cattcctctt 540

<210> 9544

<211> 533

<212> DNA

<213> Homo sapiens

<400> 9544

ccattcaaga ccaagtttat tttttaaaan atctcttctg cattanattc tangtttctt 60
 ttttggtttc aaaactgggt ctacaatcca taaaaatgac attaatggan atcttaaaaa 120
 caatctgatt ataccagcag tttggtaaca tateggtana actgttctgt aaatgcttca 180
 ggggaaaatt tttccttcac tctggctctt ccagccaggc ccatgggtggc ttttaaggaa 240
 ngttcacgga tgaacttttc tattgcttct ganaagtgca ccgggtcagg ctcacacana 300
 aaccctgtga cactgtggtc aatggactcc aagggtccac ccgaattaac agcaatgact 360
 gggcactgca tgtacatggc ttccanangg acaatgccaa agtgctcatt gcttggtgtg 420
 ttaacacaca ctttcactgt tggaagaang aaaatttcct tttttctaaa aaaaaccccn 480
 naaaggtccn ttcttggcca aggtcgantg ttngaccatt tntccattc ccg 533

<210> 9545

<211> 500

<212> DNA

<213> Homo sapiens

<400> 9545

gaatgacaat ccactttaat aatccagctt cagctcagct ganaacttcc cctctcaagt 60
 gcaaagggat ggcaaaaaaa tctttccaag aaggntcaat ccactaagaa attatggctt 120
 aaaaaaagga acagctcaaa aaacccttga aaaagggtgag ggtctggaag actcctgtgg 180
 tgcangccat ctcccgata nantgcatgg ccagttgggg gctgcctaaa tccancaccc 240
 gcagccccag ccgaaaaacc aaaataagtc cnatgggtgtg tccacagggg gtgtcnttcc 300

ggaccatgaa atcctgcagg gggaccttga ctttgttggc cacctctcgg atcanggcct 360
 ctgacaccgc gtttgaaaca taacgttgct tgctgttccc ttgatcacgg ggcccttggt 420
 gaataaaagg ccgtnggttc cncctncct gttecnnttt tttgggaatc cccaccttgg 480
 gccctttntc cccntntttt 500

<210> 9546

<211> 585

<212> DNA

<213> Homo sapiens

<400> 9546

aaacaagtgt tgggagaaca acttttaata atacatattt aattttcaga aacatatgct 60
 aaccatcaac aacatgatca gggtttcatt gcccagatg ttatttcatt ggtacattat 120
 attgatattt acaaaggntt tcaaattcaa caacacaaaa caaacagct taatttttaa 180
 aaactacaat gctttaaaaa aatgtaaaaca gtttaatttt tacattattg taaaaaagaa 240
 gactcactcc ttaatgtggc ttaatttttt ttttaagtggc caaagcctgg tgctcntgga 300
 taaagaatga aaataattct ttacatagaa acattgtgct ccagtgtggc aaagaaaaaa 360
 aaattatatg tncacatatn aagaaaagaa tcttaagccc ncaatttaga cccaaaaaaa 420
 tcttgcccn aattgagaat ttataaaaac catttacata tggttggtga actactggaa 480
 acctatntac cntttccaaa caatacccct ccaaaaaacc ccttttttta aaattaaatt 540
 ttgtgccaaa aaaantgntt tancctaaaa canacatccc ccctt 585

<210> 9547

<211> 588

<212> DNA

<213> Homo sapiens

<400> 9547

ggttggtttt attttttttt tcattaaagt ccattgatca tcacaaaaac ccangaaatg 60

特平 1 1 - 2 4 8 0 3 6

caactaagga naaaacaaac gtccaaccaa gatctaagaa accaganta tggagganac 120
 gttgcactgg actgctgggt atgcacaang gggcaggagg ggcgatcccc atggggcatg 180
 gccactggcc atgggaaaca caggaggagg gccaggcanc tggctgggcg gttatnttaa 240

ccgctgcacg atgacagcat tgancagggt ggcttcttc aggttctggc tctcatcanc 300
 cagctctttg ttcgggaaag tattcatgaa gataaaactg gtggcaccat ggctggccgg 360
 gcatccacca taaaaaatcc gatgtcncgt atcctgcang aattggggaa accgtnaaca 420
 atgccatcct ctgctgtcca taccctgccc tgtngaaaac taacacctcc ccaatcccct 480
 tctgacttt cccccnaaa caccaaaact cccccngcc tttggacaat tccctccctn 540
 ccaaaatcct ccctttttt ccctttccct gaaanaaccc nccccccc 588

<210> 9548

<211> 366

<212> DNA

<213> Homo sapiens

<400> 9548

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 gtaaatang tcttggtttg agagaaacaa ggattgggaa aaaaagcctg tattttccag 120
 tcctagttaa acgggagana aagaangtgt cagaagtgga gcaaaagtca nataccaggg 180
 tccccactta atttttagcc cttggtcacc acagcccaaa aggttggtgg ggagttgctt 240

特平 1 1 - 2 4 8 0 3 6

<400> 9549

agatggagtc tccctctgtc acccaggctg gagtgcagtg gcatgatctt ggctcactgc 60

aacctctatc tcctgggttc aagtgattct gcctcagcct cctgagtagc tgggactaca 120

gatgtgtgcc accacaccca gctaattttt atatttttag taaanacagg gttttaccat 180

attggccagg ctagtctcga actcttgacc tcaaatgac caccgcctt ggcttccaa 240

agtgttggga ttacatgcgt aagccaccac aatcagctga gttctggctc ttagtattac 300

tctagttatg tctctagata ggctatggcc tggaanattt taaaatttca aattggactt 360

attaaaataa aattataaac aatatttcna agttttattg atttaaaatt acttcnttac 420

tactatttaa aaataatctt aacaacaaaa atattaatcc cggcgtcttt ttctaccett 480

atcataaatc cctaattgggt aanccataat atatangtct tactgggatc nccaataaat 540

taatccttna aagttctgaa tttccccent ttaccaaatc cccc 584

<210> 9550

<211> 591

<212> DNA

<213> Homo sapiens

<400> 9550

acagaaggga gggagattta atgttgtcca tagaaagaca ttaaattgtca gactgacaat 60

ttagttatgg ttacaaaccg gaaaaccatg ccatttggag taatggaatt tgaagttact 120

<210> 9551

<211> 596

<212> DNA

<213> Homo sapiens

<400> 9551

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agacctgtac agtttttatt acataaaaata tcacaaaatt cacaagtaca acactgctta   60
ttttcttgct tgaagatcag atctctgggt tatttaanat caacattcac cacagctgaa  120
ggaaattaaa ctgaaccttt aaaaggtacc gcatacggac ctggttgggg ttatatacaa  180
tatattcatt gtagttgang gtataacat ctggattcag aattcctgtg tcaacttgctg  240
gtcctaattg cactgtactc ccattcctgc caaatggaaa aaaaatgtgt caacatcagt  300
ctctggttca gaactgcaat aaaaaacgta tcttatctgg gccaaaagaa tictctantc  360
ctcctggttc tgaattactt acaggtgac aaantgggca aaactgggaa ccatcttgcc  420
cncacctgg gtgctatfff tccctgaaac caaccctccg gccttaggaa tgggccncta  480
ntttttcatt acnctgnacc taaaactacc cctgataaaa caaccatcct nttttctfff  540
gcaaaaaagc aaaccattaa ttngccnct ggaaaaaatt tntcccaatt taatcn      596

```

<210> 9552

<211> 520

<212> DNA

<213> Homo sapiens

<400> 9552

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aactgggaga natctgaaca tggttaaatg cagataaaag agaaagatca gttgagggan   60
gtgacttang tatgagtgtg agggataact attggtatgt gtccaaaaga atgctgctct  120
tttcagaact acaaattgca gaaaggggca tctatagctg ctaccgacca aagtaggaaa  180
tttagagca cagtttctct aggaaatacc atcaactaac cctccacaaa tagctgagat  240
tgacagcttt accatggttt atttcacagt agaaaaataa ggtttgagcc gggcgtggtg  300
gtgtgcacct gcagctccan ctactcanga ggctgaggca ggaanattcc ttgagcccca  360

```

cagtttgagg ctgcagtgag ctgtgatcat accactgcac tcctgcctgg gtgaccagtg 420
agaccttgct tcaatgtggt gactcctgct tgtntgttat tcncncnctt ttaaggncc 480
aagaagatag atccttcct ccggaattcc anantaaccc 520

<210> 9553

<211> 587

<212> DNA

<213> Homo sapiens

<400> 9553

atgaagatat tttccttta tttatcaaac atttcacatt catgaagtca tttacttcag 60
agcaaagtgn agcttataat attaaaaatt aaagtattac aatatttaca anatgggttg 120
caggggacac ttactagtat aaaaataata caaatattgt attttcctct tatctgccag 180
taaaaatggc aaacagtttt gtctttctga agtttctagt caataaccaa agatgaggag 240
cccctaataa agtgccttgc cctgtatgct ccactgtcta tagctttaga cctcaacat 300
tcttcttcaa gttcagcagc tcttttctt gccttcttt ctccagttta aatgctaatt 360
tgtagcttt cttctccact cttcgttcct tgcgtcttc tttatagct tgctttcttg 420
ctcttttate ttctttgctt tcatttttaa aaacgtggct gaattganac ttttaagaaaa 480
tcactggcca ttaacntccg ttatcctttc agttggcttg ggngnantcc tttctttggt 540
aaaaaattga aaagtttcct gtttaaaaaa aattcaaatt gtttggg 587

<210> 9554

<211> 587

<212> DNA

<213> Homo sapiens

<400> 9554

ctgggttggg ttttttcatg ggtttttgtt ttgtttatit cgaatactga aaaagtcctt 60
tgggtctgtt ggggttccc aggtcaccg ntctttctc aaacactcac tggccttctt 120

cccacagcaa atctatttca aggacagtac tttttaaaat gattaatggt gagttctcaa 180
 ctagctctgc anaactanag ganctgtttg catctgtctg tgcggatgga gtttctttta 240
 tctgacacca ggtctccaac cacactgaaa caaggcattt atctacagan ctcaactana 300
 accccttttc attaggctac tccacttcct tcccctcata cctaccccac atcagccacg 360
 tggttaanaa ggatagtcag gaatgttttt accaactcca agccctaatt catactcctc 420
 catatctccc accccaccct ttcaacccca cccccacccc cagaatttca ttgatatttc 480
 tcccaactgt tatttggaag aaaagttaaa caaaaaagtt ccangtcttt gtgccancca 540
 aagggggccc ttttttgga naccacang naaaggntnt tcccccc 587

<210> 9555

<211> 581

<212> DNA

<213> Homo sapiens

<400> 9555

gagacggcgt ctcactgtct ccaggctgga gtgcaatggc gtgatcttgg ctaatttttt 60
 gtagtttttag taaagacggg gttccaccat gttggccang atggtctcaa tctctcgacc 120
 tcgtgatcca cttgcctcgg ctttccaaag tgctgggatt acaggcgtga gccaccgtgc 180
 ccggccccct ttttatcttt gaanataaaa aataacttct tattttctaa ttctganaat 240
 gatttaagtt cactttctaa cctatccggg gctgttttag ttatttttga acttccagga 300
 aatctgcttt cgaacccaaa ttttattaag tgnactact cggacagcct gccaatcata 360
 tcacaggata tcccaattgg aaagctattg ggaatgttcc ttctcccn aagtanaaat 420
 caagttataa acgggcaaaa tttcctattc cnaaggcgcn atttaatat tcaattccct 480
 tccctcccc cttanaaaaa tnttaaaaag aaaaaatnt cccctgctcc aattttaacc 540
 aggtttnaaa aaatggtttt ggggtaatat tttaaattat n 581

<210> 9556

<211> 442

<212> DNA

<213> Homo sapiens

<400> 9556

| | |
|---|-----|
| aacagctaca atttattgag cacttactag gtcttaaata tttgctaaat acatacacag | 60 |
| tactcacaat agccccagga aattatanat gtntttaagt ttnggatcaa tgagtaatcg | 120 |
| ttagctgagt aaaaagctct tttctaccct acaataagct cgacattaaa gactgacatt | 180 |
| ccaattaata taattaaccc tggacttata naactgtttt ctcataataa tgcacatcta | 240 |
| ctgntaaatg actactcnca aagttgtttt ctttttcacg ttcaaanaaa attacatttc | 300 |
| tttcctttca cttttccaat aaaatactct tcagttctac tctanaatct cttaggaaat | 360 |
| tnnttgaaat anaaatcaat ttaagcccta taactanaan ctttttctct tgttgancgt | 420 |
| ctttgcaggg anaaaatggc tt | 442 |

<210> 9557

<211> 606

<212> DNA

<213> Homo sapiens

<400> 9557

| | |
|--|-----|
| agagtgc aaa atgcttctta ttaaatactt cagggacaca aaagcaattt gtttttaaac | 60 |
| agaggcatcc ttttctgaag gatcatcacc acaaagacat ccattgccgg caatggacgt | 120 |
| gaacagaact gccagctcga ataagatgca acgttaggac tctgccttca gtttctttgc | 180 |
| ctttcccgat gaccccagtt atttgtacaa actcattgtt ggactctggt acatgcacat | 240 |
| atatgcatca caaagcagtc ttcgtgcaca gccttggatt ctcttgaggt ccaaggaatg | 300 |
| caggtcttcc aanacatct tcaagtactc tcctacttct gggcatgggg tgacttgagg | 360 |
| aatgttgaac cattctgacc accatcccga tcggccatgc tgtcaaaaaa aaaccagcaa | 420 |
| aatcnccttc ccatacttca caaaagcaca tatgggcttg tttctatgca aaaaacaaca | 480 |
| aataactcca tattctggca aggggatgca nccgtgttcc catcccatcg gggtattctt | 540 |
| tgggaaatna cccngggttt tttttttaat cccccccctc cgaaaaaagt ggaattnaat | 600 |
| tttccg | 606 |

<210> 9558

<211> 556

<212> DNA

<213> Homo sapiens

<400> 9558

```

agagggtgtca tgtttacttt ttatttagga gtacaaactg agacaaaatc atccttccag   60
ttagtgaggt tttgagggat catactaaag agaagacagg aaaacaccag taatgggtgaa  120
ggtcttgaga aaaggacagg acccgagat agcganagat cagaggaggc cctaatttct  180
ttcctcattt ctttccaaa tateccaaat gtgcaatgca tcacctgaga cagaaggcag  240
aaagcatcaa gctctctgtt tateccaatt caatgacaac cagaacttat ttttttgan  300
atgggggtctc gttctgtccc cangctggag tgcagtgggg cattcatggc tcatcgcanc  360
ctccaactct cantctcaan caaccncct acttcagtgt cctgaattan ctggaatata  420
ggcatgccca ccacacttgg ctcatTTTTA aaaaatttct ttttnaaaca ngatnttgct  480
acattgcccc agncttgaat ttcttggtg cattcccanc tcccncagg ctcaaaatcc  540
ttggtcccaa acaatc

```

556

<210> 9559

<211> 520

<212> DNA

<213> Homo sapiens

<400> 9559

```

gttttcttat tcttttcttt atttgtttaa accatagaga tacagggtgac agtttaccac   60
tgaagttctc aatccttaaa tttacattat tttgagcata ggagaatagc ttacattctt  120
agagtaaata gtattctgag gctacagcct atgtgcatat gtttatatat gtatttggtt  180
tagaanagct gactattatt ccttgattaa tttatttttg aaagttagtg ctccagctat  240
gctagtttat gtcccagggt atttgggaca ccacacctca aggatatttt tgaataattt  300

```

tgagattctc aaccactatg agttgataag ggatctagac ttctcagaga catgaaatta 360
 gaaaatgtga ttttaaaatg atacttaatg aaaacataca gttcagaaac actgaaataa 420
 tactatntta nttttaaac ccaaactatg cattcatgaa aactttgggt tttacnttca 480
 atgcccctgt nnttcanaat naaaaaactg aaggccnaaa 520

<210> 9560

<211> 588

<212> DNA

<213> Homo sapiens

<400> 9560

aaaagttgct gttanggact ttattactat tctcttttag gatacatcaa catttgaatt 60
 ttaccagcat atgtgactta gttttcttag tttttgtcat ttttaanaat cctggcaaatt 120
 aattttaaat aatttatattg ttactaaaat ttgatataac cttaatgac tttcagcaca 180
 ttatcaaatt atttagccat cctaaaatac ttgatgaata aattaataga agttaatgtt 240
 tctagtttgc ctcacttttc tggaattatt cttattttgc agattagtct tgccaactac 300
 cgatgccaca gaatttaatt accaattgca aagccatttt catagtcata attatattct 360
 aggcaatatt ttttggtcag gttctcctcc agtctgcagt caatgtcctc tgcataccta 420
 caaaatgatg gggaacattt tteccagggt cgtctccaat gttcnaaaa acttcttcac 480
 agatctgtgt ctcacaacna actgctttgt nnaacatctc caaggantga anccgtgggt 540
 gcaaaacttt tttggccatc tggccatccc tggtaatttt gttccan 588

<210> 9561

<211> 589

<212> DNA

<213> Homo sapiens

<400> 9561

| | | | |
|-----------------------|------------------------|-----------------------|-----|
| taacagaatt cgtttcgtga | attaatgcag tctgtagtaa | gcatatcata tagcagtatt | 120 |
| atccagttaa agaaagatac | agttgaaaaa cattacgttt | taattctcca tgagtaaagt | 180 |
| gataagtaac tataaaatca | ttattgggag aacatggaaa | cagtcaagca taacgaactt | 240 |
| <hr/> | | | |
| acagaaagat aattatctcc | aaattitagga agtacaatga | cctgcctacc cacctcttca | 300 |
| agcctatgct taccacacgt | gcaaaaatac aatacaatac | aactactgca attattacta | 360 |
| tcattttctt ttgcccttag | gtgaaaaaca cctgacagct | acatgctgag ccatgctaac | 420 |
| aaaactaaac ctttcacttt | ctttaatagt aaaattacca | ttactgaatc ntgttcctaa | 480 |
| aaagtgttc cagttcttac | cncctatctt aaataaacnc | cattttgaaa catcnncttg | 540 |
| aaaancgcct aatttttttt | taaccccgat acttccatct | tccccgngg | 589 |

<210> 9562

<211> 456

<212> DNA

<213> Homo sapiens

<400> 9562

| | | | |
|-----------------------|-----------------------|------------------------|-----|
| ctgtcaccag gatgtagtgc | agcagcatga tcatggctca | ctgtagcctc aaactcccag | 60 |
| gttccagcaa ctctctcacc | tcagcctttc gaatagctgg | gactacagga atgtaccacc | 120 |
| atgcctgggt aatttttgta | tatctgtatt tcttgcagag | gcggagtctc accatgttgc | 180 |
| ccagactggt cttgaactcc | tgggtcaag aaattctcct | tccttacctt cccaaagtgt | 240 |
| tgggattaca ggcgtgagcc | actgtgcctc gtttattcat | tttttcaatt tgacttaagt | 300 |
| aaggaccatt tctctgacta | atatgtattt aatttttgaa | gttaaaaaat ttinggagcta | 360 |
| aaagtatgat ctgaaagacc | gaaacanatg ctcctttatc | gataaagatg gatcnaatgg | 420 |
| tttangaaac taaattacct | acnggtncag ntctng | | 456 |

<210> 9563

<211> 427

<212> DNA

<213> H. sapiens

<400> 9563

| | |
|---|-----|
| ctttaagaa aaattgantt tattaacaac aaaagttagg ggtggggaaa aaacaaatna | 60 |
| aanggtcaca aacagaacac taaaaaatgc ttgtctgctc acaataatgg tgtctgaaac | 120 |
| cagccctgaa tgccctggga ntcantcact gtcactatca gcttcactgg aatcagaact | 180 |
| gcagcttcac tgccatcctc ctgggccgan tgctcgtctc cactggggga aaggactggc | 240 |
| gctgcggctg tggtccggc tccgctggcc accccattg ctgccgtgt ctgaatcatt | 300 |
| gtcactgcca ccttgggcct gtctctgtc ctcatcatca naatcngcat cgtcctcaaa | 360 |
| atcancatca ctgccaaaan atntcctctt tgtcncgggc aaccggggc tcctcctcnc | 420 |
| tgctctc | 427 |

<210> 9564

<211> 590

<212> DNA

<213> Homo sapiens

<400> 9564

| | |
|--|-----|
| ctaatttccc ttttaattgt agatttaacc acagaactgt ctcgattttt ataaaaattg | 60 |
| atcccaanat ccaccttctg ccgtggctgc cacagtccag gctgagcttt tcctcctgag | 120 |
| ccacacacgt gtgttcccgt ccancctaaa ngggaaaagt gtgggggtggc ggggcgggga | 180 |
| agcaccttgt gctgtggcac tggacacggt gctcatctgc aggatggcca cgaanacaaa | 240 |
| cggcacagac gaanacaaca caagacacac aagcctggtc ttccatcctc aggactaaaa | 300 |
| ctgcgctgag agcaattcac ataatctctg agaaacggct tccttacttg tgcgcagcgt | 360 |
| gagccgttac atctgggctt gcaggttcgg ctactgtca tggatgaatga ttaagctgat | 420 |
| ggcctcgaaa agcacggcat tcttcgcgtt ggagtgtgg accttcttcn acttgggcgg | 480 |
| ttcttgggct ttgttcagga tggctcctaa gcactcatca ggcggtccc ctgcaaggtc | 540 |
| tgggttgggt tgcactcccc atccccatt tgn2222222 cncggg2222 | 590 |

<211> 595

<212> DNA

<213> Homo sapiens

<400> 9565

```

agaaaagcta atttaaaata tttagaaata gctagcctat gtacagcaag ttttcatgtc   60
tttttttaaat aaatagattt ctaggagtca gtatatattt aatactcttc ttccttaaga  120
aaatagaagt ttaggtcaag tgtaagctt tatcactttg acactgtcct tatctcacia  180
tggaggaatt tagaaaggac cttaacagtt tcacaaacat aaataaagcc ttagtcacac  240
taaattaaaa aaaaaaaaaat tccttaggga tatcttanat tagtaaagtg acttcctcat  300
ataaatagtt tgaaagggtta cttagttttt tcacccaaat tgtgatatac aaaaagggtta  360
ttaccaagca acctacatgt caagaaagcc ccanttaggg aaggagccac agcatttatt  420
ttgtttataa tttcttttgt acccccactg tttaaancac aggttgaaca ccatgttcat  480
ctaancetta ttanttaaaa aatntntntt ggcaaggcaa ataactattt taaaaaacat  540
taanttcccc atttggttaa atnccgtttt aaaatacctg ctataccact ataaa      595

```

<210> 9566

<211> 542

<212> DNA

<213> Homo sapiens

<400> 9566

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aagagacagt gtcttgctct gcctcctagg caggagtgcg gtctcacgat aacagttcac   60
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gctacaggca cgcataacca tgcctggctc ttgtcagtat gaatccctgc tgtgtcccca  180
gcattctanag canagcctgg cacatggcag gcccatcttt gtggagtga cttgggaacag  240
gancgctggg atgggtggagt gttctaagt agacagccac agtgcccgtc ctgtttgctc  300
ctctcgcccc aactgccact ttcantgtca ggactgggga aaaacatagg caaaaaggcc  360
tgaaatccaa gggaccccan gctgcccact gccaccgcc caccancc tggcccacac  420

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tcananggtc tcccacctcg gcctggccan cgcacaaaag cctcccacct cggcctggcc 480
 aancccccaa agctccccct cggcctggcc cnnccccaa aaggcccccn cctccgcntg 540
 cc 542

<210> 9567

<211> 382

<212> DNA

<213> Homo sapiens

<400> 9567

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 tgagcaanaa agtctctgga ttccaggaga aggaaaacag ccccnagggc agganaaaca 180
 cttgtgaagg gtccattgaa aanacanana gggggcagct ctggcctctc tgctgccact 240
 tccctcattc gatgcacagc ggtggggctc acaccatttt ccactcance tcttccgcac 300
 aacctgcaca tctatcgttt cttcaggggc tgganctggt tccaccatgc ctanccnaaa 360
 tcanganggg gtcctggggc cn 382

<210> 9568

<211> 553

<212> DNA

<213> Homo sapiens

<400> 9568

caatcanaaa aggtttttatt ataanaaaca atgacatcag gtaaaaatgc aaaaaattgt 60
 gcaattatgg caaatgttt aaaaatatct acacatttgc cccacagga ctacagtact 120
 tactacatac ctgagcactg aacattgaat tccattttta actgctttac atagggaatc 180
 tgattccttc atgatcacat ccatttggtc tcatgaccaa taaaatcagc ttgatgctta 240
 agcatcaact ttgttgaaca gaaaacaaag atggaaaata aagaatacaa tttctacttt 300

特平 1 1 - 2 4 8 0 3 6

cctataacat anttataccc antccagttt tcaatgtgtg acaaatatat aggaaaagtg 360
 ctncatacat tcttcaaatg caaaaacaaa nttaaagtg aactggcatt attttnaanc 420
 tacattttaa ttccgtttta ccnttgtgcc ttttacttaa ngggtctgcc ccnctatgaa 480

aatgccctt aaatntctaa attataaccc ccccttttcc tantcctact tttcnangga 540
 cccctcngaa acc 553

<210> 9569

<211> 353

<212> DNA

<213> Homo sapiens

<400> 9569

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 tacatgtatt tggcaagatt ttagagtatt ttcttttaaat ggactggggt caatctttat 180
 tctggaagct tcaccgtatt tttcctgatt ttctataaac cttatttcac ctgtaengag 240
 aggctctcca aagccagtaa cttctcctgg actccttggg ntctctaaat tttctntaca 300
 acaatcagtt tttttaattt cacaaggncg gcganttcta nttcatnnt tgg 353

特平 1 1 - 2 4 8 0 3 6

tacatatgta tatatacaca catatactta attttaaagt taatcaaatg gttatcaaaa 300
 attaatac aacaaagatt cctgggaagg taatgcttat ataaaataag gccatgtttc 360
 taaaaatccc tcaaatcagt ccaagataag atttttaatg aaaaacataa aaggttaaag 420

aaatecttct ctccaagtta gccggttttc cccactgtt ttcctcctgc cttttcccg 480
 tgggtgtcca aataaacctc ctgtgccct naaaggccnc ccnccttna aatggccncc 540
 ccccttatga aaaaatcnac ccccaa 566

<210> 9571

<211> 604

<212> DNA

<213> Homo sapiens

<400> 9571

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 tgattttcat ttttaaaggg atgcaaacaat tccattttct catttataat ctattccaag 180
 gcaaagtatt ttaataatgt atcctttctg cagttagatc acaattcaca agtataactg 240
 aaacagacaa aaccttgtca gcaaaggtta aaagtccttt tttctttaaa aaaaaaaaaa 300
 aaaggagggt naataaccag cccttatgtg ttttcagaat ttgtactac actgacatga 360

特平 1 1 - 2 4 8 0 3 6

<400> 9572

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ccaaccaagg cgttatctgg tatttctgtg aggtttatac cagctataac caggctgcga 180

agattgataa gaggcctaaa gticattgtc ttgattctga taattggatt ttccccaatc 240

atcagaatct ctagatttgg aagagcatca aaccacttac tgttgatcat ctgcaatcta 300

tttgaattga gatgaagtcg aagaanatta tgtnggccaa taaaggctcc aggtgaaatt 360

gtagaaagca agttgtgatt aatataaaat tcttgtaagt tgctcattcg gacanaentt 420

ttccaggcag ttcantaagt ttggtttccn ctaggtncnc aaaaaggaac cgaagctcct 480

ttttacntta atatt 495

<210> 9573

<211> 529

<212> DNA

<213> Homo sapiens

<400> 9573

ttt t attttttta ttacaaattt ccaccaattt ttgccagtca tattattgtg 60

特平 1 1 - 2 4 8 0 3 6

<211> 495

<212> DNA

<213> Homo sapiens

<400> 9574

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cagaaaagta ggcaggcaga aagaattata cataaaagtt tccaaaagga aaaacaaaga 180
aatatttaat ctgatctctt ttcttttaaa aaattaattc agtanacttc tattttttcc 240
tgtgtaacat gggaattcct ggctctaaaa tggatgaatt ttcagtgtca gtgtaaaaac 300
atcttgttac ttcttttaaa ataaaaactg cagcgtggaa attaatgggtg tattacgcat 360
ttaaactcen aataggccgg gaactggaac caagtgttaa gcaatttgct taattattga 420
cttnccgtaa naaaantcta ggggaagggg gaaanaaatt nctttaacct cnctcncaaa 480
atttctccgt tcatt 495

<210> 9575

<211> 370

<212> DNA

<213> Homo sapiens

<210> 9576

<211> 604

<212> DNA

<213> Homo sapiens

<400> 9576

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aagttaatta cagcatttga ggaagaggat ctaattccac acaaaatgga agactctaaa   60
atgtacccat taaactgcta aaaaataaat tgagtggatga gaataccaca taagcccagt  120
ttagattctg agtgctgtca ccctgtgatt acaattatac agactcttcc aagcttatag  180
ctagagctcc tggaagetat tttataacctg atgcaaggac aaaaaaacca caactcagga  240
aggaattaag tcctgaatta ttggcttcat cacatccacc ctctccacc caaaacagca  300
caaaagaaac agtgaccaca ccctgtagat ctttttgtgt aaaagaggta atgaagacct  360
gggatgggaa caagtcatga agatctgtct ttaaaaggta cctttcaggt aaatttgtac  420
acaccatcaa gcaacaagcc tctcatcagt tanggttagg aaaccaaggt tcaattctca  480
ggaaatcaca atttcttctn tttactccat ataatttaca aggtgcctat atttaccnc  540
ttccccttgc agccctttct taataaaaaa aaaccggctc cctnccgggg gcnccaattn  600
ccca                                                                    604

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<210> 9577

<211> 539

<212> DNA

<213> Homo sapiens

<400> 9577

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ggcatcctca accaaatgtt ttgaatttat tataatcgtg cttctctaca actaatgatt   60
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caataggaga ggttcacaca gctaacaaag catanantgt gtgacctcaa taagnattc  180
aacaanaca cagccgtat ttccctctga ctgcgttccc ttaggatgct ctgatgttgg  240

```

| | |
|---|-----|
| tcactctcat aatatcaaaa gccagtctca gattcttcat tgcttgggga aacatgcctt | 360 |
| gatgtnctgc agtttgccaa ctttcatcac ttgaaacccc tctgacggga tggcttcctg | 420 |
| ggaaaaaaat cctgtttggc tccatggtcc gagtaccata aaanaaggct cctccacang | 480 |
| ccnaaggtn atncaggcat ccatggggcc attcaaacac cttcnctngt aaattttta | 539 |

<210> 9578

<211> 520

<212> DNA

<213> Homo sapiens

<400> 9578

| | |
|---|-----|
| gaattcaatg tatttacatc aaaaaattag gtagtcattt tacatttaag gaataaaaac | 60 |
| cttaaaaaaa acaatacaaa gagtgaaagg attttaacca agtttacatt tcttttngct | 120 |
| ataattttta acaacaattc gtctcatcat aacttaatgc aatgtgcaaa tgcagcacc | 180 |
| attacaatca ttaaactaaa ttaaggaag tacattgtta atagtgacc ncgaggaaa | 240 |
| tggatttcac ttctattaaa aactctatgg tatataagca ttacataata atgctactta | 300 |
| accacctttt gtctcaanaa ttatcaccaa agttttctgg aaataagtcc cataagaatt | 360 |
| aaatatttaa aaggtgaaat gttccttatt ttaactttag caanatctt tctttttcat | 420 |
| taanaaacac ttaataaatt ttaaagcaaa agctgttana atctaaatag ctaaaactgt | 480 |
| tcnccgaatt caancttaca aanaaatctt ttgttannta | 520 |

<210> 9579

<211> 437

<212> DNA

<213> Homo sapiens

<400> 9579

| | |
|--|-----|
| gactagctta ttttcttttt aattgaaccc aaaagaagct tctagtatgg agcaagtctg | 60 |
| gtggaaaagc agcatatctc ccagganana anggaaacgg agcagggccca atcatcaggt | 120 |

特平 1 1 - 2 4 8 0 3 6

gacagtgcag tgctactcat caccatcatg aaaaactcat gagcgtenga cgcgccacag 180
 ggattcctga tcaggttaata tctgctatta ttatgacaag ctccatanaa aaatgtntac 240
 agcagggcag aaagacatta ttctttataa ataaaagggt catctgtgca atattcacat 300

tagaaaaata tacattgctt gccataaacc ttctctggat aaaatcanac aaatctagga 360
 tctgactcen cttcncgtg aaggctctgg ctcnccgtg acaaacgact ccncancttc 420
 taaangaact ccttcta 437

<210> 9580

<211> 562

<212> DNA

<213> Homo sapiens

<400> 9580

cacacaatat ctcatttaat ctttaaata gctttatcca acataaacta ttaccctgat 60
 ttccagatgc aggaaactga ggnataaaaa cgtaaagtaa cttgtatgaa gtcaactggc 120
 tcttgaatga anaaattggg gcttgaagc agtctgtcta aatccaaagc tctatgacct 180
 cattatttca ttttaactt aaatagtaaa acaaaataac actaattagc atctgatagc 240
 ctttaaaaat agaacacgga ataattcatt ttaataactg tacattttta agaattatat 300
 actgaaatag ttaacgtact agttgccatt ctttcatttc attaaaagaa atctcttcct 360

<400> 9581

ctatgaacta gttttatttg catttaacat gattatacac attcatgtgt ctaacaagat 60
 ctgcactgtt acattaaaaa tacagtacaa taacattcna catgaggtac ttentattta 120

 tgtatTTTTn cententaaa taatgctgta agctactaaa ttcnagcaca ctgatgcaca 180
 agtgactaca gtgtcttgaa ttagctgagc ttatttaaac accttaataa acaaaaaagt 240
 tcagtgaat aattatgtan aaattagacc atttacttaa atactatTTT aggatatgct 300
 taaagaatgt cacattagaa ctgctagcct aattcccttt atccccngaa gtgaacaacg 360
 acaaagactg ccngccagat acgttgggga aaancatcta cagtgtntnc tgcttaataa 420
 agttgtgttt ataaaataaa ttgcctgct ttgttaaaac aatggttnc anttttaaaa 480
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<210> 9582

<211> 577

<212> DNA

<213> Homo sapiens

<400> 9582

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 tnagaatacn aaaataatct atattaacaa gtttgcttct tgtacctgct actaagtcag 120
 tcattaaact cactgcaggt gttggaacca ccatatattg ttagaacttc cataagaatc 180

tt at catcat ataa aa aa aat atatga ataatatcca ctgtaaacct 240

特平 1 1 - 2 4 8 0 3 6

<211> 568

<212> DNA

<213> Homo sapiens

<400> 9583

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tctccataca tccaatgtc agggtccttg tagctcggan cccttatcca ggtanatgaa 180
ctgctgcccc gtgaacacta tgncaaagc aatttganca ccattctctt ttctggcagt 240
gaggtaaaat caggtctttt tggaaggga naanccacat tgcattctctg ctacacacaa 300
nattactctg tcattgcctt tgaatctttc acgtccctt cttctgaanc atcagttttt 360
atggaaactt atcacacctg tcttgtgggn ncatcttgnt ccatccctcc tctcttccta 420
ttgtccgttt tccggtattg aattagggaa aattttcagg tntcccgttn ttcccgaag 480
aagggtgttt ttctttcnaa aaaaagaaaa gtnggggnct ctgaaaaatn atcctccttg 540
cttnggggaa caaaacccaa aggaattt 568

<210> 9584

<211> 530

<212> DNA

gggaccaggt ccatggggaa gaaaaattcc ctttctctcc cncctggcat gaaaggtgct 480
acancncng catcntgaag gttccccccc ggtagaacc anccanaatt 530

<210> 9585

<211> 591

<212> DNA

<213> Homo sapiens

<400> 9585

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tttcttecta taaagaattt gctttagttt ttcaataagg catttttttg tcatccaaac 120
atctcttctt tttaaaattt tcttagagtt aaaaccataa ataagaggat ttaaaccact 180
aaaatgacac gtgccaacat cttcattcag ccagacctgg taaattctat caaaactaga 240
cagttaaata agaaccacgt tataaaaata ttagccaaaa aaagactatt agataattct 300
gcaaactcaa atatgaaact gtactaaaca aaatatgtgc aaaggtacac aagcataaan 360
ccacgttggg ggttatgctc anattaattt taaagctcgc tctagtggat ttaattcaag 420
aattgtccac ggtgggtggg tttactttga actcccncca ntcnaagaaa aataaaatat 480
gcnaaccac ttccccaaa agttcttatg gaaccgggcc tcacntgttc acaccagaa 540
ngcctggggt ttccaaggn cnggggggtg gaaagaaaaa aaaaggccct n 591

<210> 9586

<211> 588

<212> DNA

<213> Homo sapiens

<400> 9586

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caacctccgc ctccagggtt catgccattc tctgcctca gcctccanag tagctgggac 120

特平 11-248036

actgtgttgg ccaggatggt cttgctctcc tgacctgtga tctgcccgcc tcagcctcct 240

gaagtgttg gattatagc gtgagccacc gcaccagcc ttacgagttc tttgtatatt 300

ttggataaca acagtttate aactatgtct tttgcagata ttttcttgca tccttggctt 360

gtcttctcat tctgttaaca gggctcttca cagaacagaa cttttaaaat tttaatgaaa 420

tcccagctta tcaattatct atttcatggg ttgtgccttt ggtgtttcat gtaaaaaant 480

ctccaccata actaataccc aatacccaat gtccacanat ttccccttgt tgtctcccag 540

gattctatna tttgccttta cnttgggcca taacccttgg aattnatt 588

<210> 9587

<211> 588

<212> DNA

<213> Homo sapiens

<400> 9587

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tacaggcaac tgctactgcg cccagctaatt ttttgtatct ttagtaaana tggggtttca 180

ccatcttggc caagctggtc ttgaactcct gacctcaggt gatccactgg cctcggcctc 240

ccccactgct gggattacag gcgtgagcca cagcgcctgt ccaatcacag gattttaaat 300

<400> 9588

| | |
|--|-----|
| gtccgggtct acacacagtg actttattac tctatggatg ctggtgaact gccctcccca | 60 |
| <hr/> | |
| accagcttca cgggggcagg catctctgtc catcccatgc ctttgggtca cagggggcag | 120 |
| caagaccaag aanaccacag ccaggccctg gggttcagctt canaaccatc acccgctgcc | 180 |
| tccccaacc cccaatctcc tgaggganga naattcctag ggacaanacc canaccctt | 240 |
| tccttcagcc tctgcttcac caagggggcc tggcctgcgc ccaaactcct cctggcctgc | 300 |
| ccctcaaggg tccaagttct cactctgtc ttcaggcang aaaaaggcag ggaaaaaaga | 360 |
| attgaagaan gaaaaaggaa gcttggcccc angaaaaaaaa aaaaggggga aaagaanaaa | 420 |
| tttnnnaaaa | 430 |

<210> 9589

<211> 561

<212> DNA

<213> Homo sapiens

<400> 9589

| | |
|---|-----|
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| agtgttacac gattttcgta catataatca catccaaaac aagtctaaa atttaaattg | 120 |
| taaacattct catatgtana aatattttaa ttggtgtatt aagttttgct aactgatcaa | 180 |

<211> 489

<212> DNA

<213> Homo sapiens

<400> 9590

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 agctacacta cagcccccca tgcccagggc acagctttgt tgctaagcct gtaacaaaag 180
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 ntnannacn 489

<210> 9591

<211> 431

<212> DNA

<213> Homo sapiens

<400> 9591

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 cataatttgg gggggcactt canggactcc aattacaaag ttcaaaataa atcactgcac 180
 gtccctccc cctccccca aaaaaagaaa aaaggactaa ttttagataa cagaaatcat 240
 tctacaaaga actggattat gagggggcaa gggantaata nccaccangt tataaggaac 300

<210> 9592

<211> 534

<212> DNA

<213> Homo sapiens

<400> 9592

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aagcgatccc cctccttgga ctcccaaagt gctgggatta cagatgtgag ccaccgcgcc 120
cggcttaaac attttttggt gttgctctcc ggctttccct aaatataaga taaaatgtaa 180
tttatttgca gatataaaat ataaagccca gctcagggcc atacgccact tttcccangg 240
gagcangagc tcgggctctg gctggggaga ataacttana tccgtgcaat aaataaacag 300
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tgacaatcaa aggcagggtt canccccac cccacagtgg aactgacag gggttgaggt 420
gggaccttct tcttangacc cactccanac tgtantanga ctgcaggtct gtctccttgt 480
ctccctattt gccacacaat ccatgggccc ccttctctna ntgggcancc cccg 534

<210> 9593

<211> 493

<212> DNA

<213> Homo sapiens

<400> 9593

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acacacgtaa agatatttaa gtentaaaac acacacacac acacacacac acacacacac 180
aactcaaac tttaatgacc ttcaggaacc ataatccaat aatatattta ataggtaaga 240
tctcattcat caatatacaa aaaaaaaaaa acaaaccaga aaacaaaaaa ctaactttga 300

gaggtagcat attttgtaaa gtccagggt gctctgcagt ttctcctgga tacaaangta 420
gaaggcatca cccttgcccc ggaaaaagaa aattnaantt tctgttctcc ntggccttn 480
ttncctgaaa acc 493

<210> 9594

<211> 518

<212> DNA

<213> Homo sapiens

<400> 9594

aaaatttact gtttatttct ttgttacaca aagggtggcc aagacatctt agtccatctc 60
ctatgtcctt ttggccataa ttacacacac aataatggca agctagatta ggagtctagc 120
tcagggtcaa gtttttccac tttaatgact atctctggag ctaaagcggc agcaccagct 180
tgttggttct ctgcctctga ctccgacaac acttcttcct ttatttttac aggcttatta 240
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tcaaatactc tcncatgaaa aanaattgan ctttacacnc agganacttt tcgaaaacca 360
ttcccagcaa catactgtgc tttcatactt tccantaatc tccattgctt ctccaaatgc 420
atggtacggg tgggaatata ctaccttttc nctaccctt ttaaanaatt ccngtgnaat 480
gaantcccc aaatctcct gttttttcta aaaanaaa 518

<210> 9595

<211> 496

<212> DNA

<213> Homo sapiens

<400> 9595

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tacatgtntc actgttgtac gctggtagca tggctatttg aaaaattata atttatganc 120
tattactcag tgggattttt gcaataaggt acttcatgaa acaaaatgga aaaaggaaaa 180

特平 1 1 - 2 4 8 0 3 6

ttaaattaaa atgcncact aatatttatt tactacagac ataatttttc tcagttgtga 240
actaattact atgcttgga aatgctanca tccnntaaa tattttgggt ctattgggat 300
acaaaatctg atttcncnaa ctttgcaaag gcacattttg gctgggcaca atggctcaag 360

gctgtnttcc caacactttg ggaagcaaaa gcgggcggat catnaaggtc cggaaatcaa 420
aaacntcccg gctacacnat aaancntct ttctaaaaat accaaaaaat taccgccct 480
tggtgcngga acctnt 496

<210> 9596

<211> 547

<212> DNA

<213> Homo sapiens

<400> 9596

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gcaatacact caagttatgg tataaaaata acattttgtt ttctctcttt tttctcattt 120
tanacctaan anttttttgt tataaaacac cccagttaag aaatattgaa acataagana 180
cttgaccatc aaggagaaaa agaancaag agtgaaaaat gctatgaaag taactccaaa 240
cctgggcggg gcgggaggta tgangaataa ggagaaaagg aggcatnntt gnaaaggcca 300
ggggcctgtc ntctcancag ctccgaaact tgtcntgttt gaaagtgcaa atgtctatgg 360

<400> 9597

| | |
|--|-----|
| aaaacatact agtttttatt gcatttttagg gattatagat tattgaaaat tatttaggac | 60 |
| acggaaaata tctaaaacat gaaacctttc ttaacaaaag catcatagtc tattttggtg | 120 |
| tgactgttca ttacctacag accccaaata gttcttcctc ttttgaaggt tacacttgta | 180 |
| aatctacact cttggttcaa tttatcactg tccaaataag gtgganaagc tgttcaaact | 240 |
| gatccacaga atgcagtatg cctggaanag gcaaaacaag tattttcaag acataacagg | 300 |
| ccattacatc ttaatatgct gcccacaatt caaatatatt gttgacaata acaaatacag | 360 |
| atgaagacat tttgtgtnaa gctcaaact ttagcatcta acaagtgcac tctagttcca | 420 |
| gcatctatga aaanatnact cctccattaa caaatacaca tgagttantg cccncccccc | 480 |
| cgcttcata aancctctctg gaactgttat taccttatgc caatcttgga aaaactgctc | 540 |
| cnentctcat tantccacca nctccagctc c | 571 |

<210> 9598

<211> 518

<212> DNA

<213> Homo sapiens

<400> 9598

| | |
|--|-----|
| gaaatggggt ctgttgccca ngctggaatg caatgggtgca atctcagctc actgcaacct | 60 |
| ccgcctcctg gggtcaagtg antatcctgc ctcagcctcc cgaatagctg ggattacagg | 120 |
| cgccagccac catgcccggg taattttcat gttttcagtg gaaanagggt ttcaccatgt | 180 |
| tggtcaggat ggtccccaac tcctgacctc aggtgatcca cccgcctcgg cctcccaaan | 240 |
| tgctgggatt atangtgtna nccacctgt ctggcctatt gataattttt aataagggtt | 300 |
| cacccaaagg gtggtcanaa aattanaaac cccctttctc tgggctgaac ctggaaaatg | 360 |
| ggccataact gccaccatgt natatcctag caaccctgaa tcccttccta atttancaac | 420 |
| acttcancct ctaactgcat aactcttaat aattnaaaca gttgggttgt gccanctccc | 480 |
| actctggtg tgagagaggt gaactataat agat aa | 518 |

<211> 567

<212> DNA

<213> Homo sapiens

<400> 9599

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ctcttttattg actgttttat taagcatgcc cctctgctcc actcanaact gaggagtcta 60
caaaaactgt gggcaatcca anaaggntgg ttattttcct gctttctgcc aacccaaagc 120
aaactgctct gccatgtctg tttgtatttc ctgaatcctg agccctcaaa acactgcttt 180
atgaagtcaa caatgccaaa actgaaattt gcatttctat tctaanatat agctgacaaa 240
atgtcctttt ctctgcac ctctcanaaa acacttaata acatctaagt ttattttcta 300
aggatcaana aaacaaagtt ttctcatgaa ttgctgaatg atanttttc ttgccaaggg 360
ctaaaaattc aggatacccc cnaatcaa atttcctaaaa caaaatatat tacaggtgat 420
ttgctgcaat catgaaacac anccttcga aanttcatat tccatcta atngttcgaaa 480
catctaaaaat gaatccattt cnttacaata agttggttgt gcaatccctt ccaaaaaaac 540
caattnttaa aaaatcctta antttat 567

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<210> 9600

<211> 476

<212> DNA

<213> Homo sapiens

<400> 9600

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ggagcttgga agtcatttaa tctggaaca ttattcaata tatatgctta aatcacaaac 60
aacagttcac aagtgtatat atattgtttc ctggataaca caccgaagag tcaaaagtga 120
taagaagcac atttagagca ataccctag aattaaaatt aattctagaa caatgccaaa 180
ganccaaaat tatattactg tgcttaacaa tgcaaaaagt gtaggttttc tccattcagt 240
tgggcattga ttatatatta cccatatagt atttcaatca gaatcaaat ttctcanatgc 300
attaccacta ataacgggaa aagttcttaa acctgttcc cctccgntc taagttggta 360
caaatattat ttatatttgc tcaaaataa tgggaattc ncccttctat gccagntac 420

```


tgcaattact gctgatggct tatctgatcc tccnccaagg ntgttaataa tganna 476

<210> 9601

<211> 584

<212> DNA

<213> Homo sapiens

<400> 9601

ccagtttcaa agaaatttaa ttattattta cacagttaag gaacaggtga tacattttca 60
 tttgttagaa actgatcttt ctgtaataaa atanattttc aattcagtggt atgtcattat 120
 tactgctaag gaaatcttag cccttgctcg ccttaaagga atctttatct aatttactgt 180
 aattattgct gtgtagtcac tacttttggt aattttctcaa atcacttaaa tgatgggtctt 240
 gttttccact tagtaggtat acanancctt gacgttccta ttatttccta tataaganaa 300
 atttaaaaca ttttttggtc tttctgtctt aggggaataa aaaaacacta accacacatt 360
 tgggttaaact gcttaggaga agacataata aagatcccca atctatactt aacagccata 420
 aacctgagtt acaggctcag ttactccaaa taaataattc ttataggtac ttaattaatt 480
 aggcctgggt atctaaataa caaaataatn tccccaataa ataaaaagaa ggggccccat 540
 acctgtttg ccctttgggtg acacctaagg acctgccatt cctc 584

<210> 9602

<211> 482

<212> DNA

<213> Homo sapiens

<400> 9602

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tttaa aag aattgtacc agctctcttt 120

atcctcgac aggggtcatg ctaatcttct ctataagggtt ccaatttttag tgtatgtgct 300
 gctgaagtga gcacgggtct ataattttta aacgcggggc ttgtgctgca aggggtgggtgg 360
 tcagggtcca ccaagcagtt tcatcanggc ttaaacttcc cnnccccnaa atnaaaaacc 420
 aaaatnaaat gccctactta aaaatactta cttaattata ccttaaaaat taaacactta 480
 nc 482

<210> 9603

<211> 594

<212> DNA

<213> Homo sapiens

<400> 9603

cttttttggtt tcttgttttg aatttttaaaa agcgggttca gctattggga acctgaggtt 60
 gattancctt gangcttcgg anggtctctt ttgctgctgc agatttggca atcctgtaac 120
 ttcgaccaac acctttaaat ttcccccttc ctactacttc cacagtgact ctgaccttcc 180
 cgctcgtaagt tctctcagcc gggctaaatt tggcagtttc tggttccatt tcaagcaatt 240
 ctcgcacagg ggaacggggt acatttgcag aaaacttttc tattagtggc cgcatcatgg 300
 gatantacac ctgccanact gtctccagt acatcccact atccatgtaa atggcaccag 360
 caagegactc aaaaatatcc cccatggcct ttggaacttc aatatcctct tctttctctt 420
 catcctcctc anatctcta agctcagaat ccattccttg catttcattc ttctcaagct 480
 gaaatgcacn aaatctccat gacttggan aactcaggaa aaaaaacttt gaattattgt 540
 tgtatcgact ttaenccacc nanccaaaan tgttttttaa cagggncaaa cccg 594

<210> 9604

<211> 409

<212> DNA

<213> Homo sapiens

aaacagggtc ttggcctgtc acccagaatg gaggcggtg gcatgatcac gatcatggtt 60
 cactacagcc ttgatcttct gggctcagct atcctccac ctcagcctct caagtagctg 120
 ggactacggt gcatgccacc acaccttgct aatttctgta tttttttag ggacagagtt 180

tggccatggt acccaggctg gtctccaatg cctgggctca agcaatcctc caccttggcc 240
 tctcaaatg ctggaattac aggcattgag cacagtgtct gactacaaat tgtaatactt 300
 taaaaattct ctcaatatta gagtaaagtc actcaatcat gattaataaa tgagtnaanc 360
 cacacataa caatgtatga tctnagaact cnttngtng ganaaaatc 409

<210> 9605

<211> 593

<212> DNA

<213> Homo sapiens

<400> 9605

aagactaact gctttatact agcatttaat gattcatatt tttatatacc atagctggta 60
 aatacaagct acgtacttta ttgggtgagc tactaaacta taatctgttc caactctaga 120
 gggaaaactg gttatgttgg agttatagag aagtgggtgca aaggcaccat cctaaaggaa 180
 tttcaacatt ccctttataa tctatgactt ttgctttatc tatgatctac aacactaacc 240
 tagactatat aatgcccttg ggcctacata aaatctgcca ttcattttt tctaattata 300
 gtagttgcta tgtcactact actaatatag taatttgata gcatctagca ccacagagtg 360
 tgactaatat tgactagatg ctagcataca cacaagtttc tccagttgca tttggggaaa 420
 aaaggcagga gtagatggat ataaaacaaa agatctgtta tttgttataa aaaaaacaca 480
 atcttttaca gtccancaat gactttattt ttntccaaa aattttacat tttcncccaa 540
 ntttattttt ntaactncct nccctgccct taaataatca ccccttctat tac 593

<210> 9606

<211> 422

<212> DNA

<213> Homo sapiens

特平11-248036

<400> 9606

| | |
|--|-----|
| cttttttttt aatttttttt ttttttgac ananttttac tctgtcacc caggctggag | 60 |
| tgcaatggca cnatctcagc tcactgcaac ttccgcctcc tgggttcaag caaatctcct | 120 |
| gcctcagcct cccaagtggg tgggattaca ggcattgcacc accacactca gctaattttt | 180 |
| gtatttttaa taaaaacggg gtttcaccac attggccagg ctggtctcaa actcctgacc | 240 |
| tcaggtgatc cgcccgctt ggcctcccaa agtgctggga ttacaggcgt gagccaccac | 300 |
| accagccaa catacanaat tctagcgcta ttcacttgcc ccaaatttgc aacttctaac | 360 |
| ttgctganan ttagacaana nataagtnat atgtgaatca ntgatatggg tgggtganata | 420 |
| aa | 422 |

<210> 9607

<211> 555

<212> DNA

<213> Homo sapiens

<400> 9607

| | |
|---|-----|
| aaaaatacag tggctttatt tccattgttt atagtcccca gtatcccatc tgataagaac | 60 |
| cttcaattct ataaacaaaa atatctcaag aaagtatgtt acacaatagt acatataagt | 120 |

<211> 526

<212> DNA

<213> Homo sapiens

<400> 9608

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gtttngatat gtatttttta tttccctgca gttttcactt atcaagaaca agtaacaggg 60
aangttgtct gaactagtgc ataaacaaac attctgaaac accactacac gtatctaatt 120
tacaagaacc gtataaaaaa agtcactaaa acactacact atgaaggtgt ccaacgctta 180
cagtcagact ttttccaacc cgttacttgc cttgtagcca caggaaaact ctccaaaatt 240
gaaaagacaa tcttgccaca accctcccc cgcccaacac ctgggatggc tcgatatcta 300
gacttccaat aattattgca atgatataat gcaatacata cctggtaaag tatcttttat 360
gtgatgtgtt acagttttta agccagttaa aatatgcagc cttcagataa aatgtnatcc 420
tcgaaaaatt ttcatatattg cacagtttaa atgtinctana tgcataattt ttcnattcc 480
aatttttccg tgttattaat tanaaattgg ntccctnaat anaaat 526

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<210> 9609

<211> 576

<212> DNA

<213> Homo sapiens

<400> 9609

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gaaaacactt attttactgt cttcaacaac aacaacaaac agataggcag gggaagtcca 60
gaggactcag aattgaagca gctctataca ataatgaagg tggtaaatg atgtgactgc 120
aaagaaaatg actaaaacaa aactttacaa acatcttcat gtttgtaatg tattaatgca 180
caaaatatca aaaatagaaa gtctgagttt cttccccgca ggtttatgat aaactatcaa 240
ccttctattt aatgcatttc cttttttttt atttatagag atggagtctc gctatgttgc 300
ccaggctggt cttgaactca tgagctcaag caatcctccc acctcggcct cccaaagtgc 360
tgagattacc ggtgtgagcc agtcactta gaattacaa atttaatttt ataagcatta 420

```

特平 1 1 - 2 4 8 0 3 6

antttncgtc tcaaactaat gactgccttt ttaccatac ttatacntn ttataccttc 540
ccantggtac atttaaaca nataatnttt taaatc 576

<210> 9610

<211> 382

<212> DNA

<213> Homo sapiens

<400> 9610

ganaagaagt tcccctttat tcaaactcct tccangtgac ccgggtgggn cataagccca 60
ttcactttcc ctgcaaacc ccacttcctg tgggtanggg aaccttcgcc ttggcccacc 120
canaaccggg ggcagtctgt tgangtctct atatattcag cagggacccc atcccttcct 180
gtccccagge ctgtgtctcc tcaggactca naactggttc tctggctcag gctccatgtc 240
cttccccatc cccanggctg ggggcttcag ggacgctcca tcaaccaca ggagcagctc 300
ccagaggaac ctaagaance acatctgctt tgtggctgat ccancantaa atgtttgtgt 360
cnnantgtan caattcctaa ga 382

<210> 9611

<211> 527

acctgtgatc atgatatcaa aaattataca aagtatgaat ttggttaciaa tttctcctg 420
 aaacccccgt tcctttccat tattccntan cccctaataa taccnagggtg gcaggacaat 480
 taccctgaaa ccaaataatan ttnttggttn antaaaacca aacaaaaa 527

<210> 9612

<211> 604

<212> DNA

<213> Homo sapiens

<400> 9612

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 tttacttgct aactccaaaa ttttaagtaa accaaatgca atgattctgc tgttactttt 120
 acattgcata caagtacatg cgtgcacaca tgcagacaca cacacagaca cacatgttta 180
 agcaacaaat tcaaagaagg gtgtcnacac aattaaaatc cataatgtta aacaataact 240
 gtgcttggtta gttatacaag gtaatttgca ttgatataa acttaactta cattagtact 300
 ttttagaaac taaaattatt ccaaacgtat taaatgctta gaaaattcat ttctttccta 360
 aacagattag aaccataatt caatatgtta accittatat agaattatat gtaactcaaa 420
 ttatattcaa ttaattcnaa tatataattt aaatacngaa aaaagaaaac tacctgatgt 480
 gttntnanga tgtttatttc cctccaaaaa agaaactccg ccagacaatg atttttatcc 540
 cccatttccc gnccccctat cccttnaaaa aaatttntnt ttggaaaca aaccctncaan 600
 ttcn 604

<210> 9613

<211> 597

<212> DNA

<213> H. sapiens

特平 1 1 - 2 4 8 0 3.6

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tttatgancc ttacaaatt gctgccagac tcnagattta aaaaaagaag gaaaatccca 180
tatctgaana taaatttgct aattctggat aaacgccatg tgtctcagta catttctggc 240

acttacctac acatctgcaa gatgggaaat catattgagt cttgacaggt gtatccaata 300
aattttttat aggagtatct agtaatttg aaggtgactc tataaaatta ttgagaacag 360
aagcagctgt tcttttggtt ggtgtctttt ctgaagaant tgtttgctgc tctaaagctg 420
gggtgtggct atcaagttct gcagcaatgg ttgtctant caaaactgtg actggcccga 480
cattccactt ttacttgctc cgtgattga aaaataaaaa cctatggta atacnacttg 540
gcttaactgc tccaanccgc cccnggcc caanaaaccc ttgccgcat acccacn 597

<210> 9614

<211> 561

<212> DNA

<213> Homo sapiens

<400> 9614

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aacctccaac tccctggttc aagggtattct cctccctccg cctcccaagt agctgggatt 120
acaggcatgc gccaccatgc ccggctaact ttgtatttt tagtaaaaat ggggtttcac 180

<212> DNA

<213> Homo sapiens

<400> 9615

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aatcatttta cattagtaag aggccatcta cattgtacaa cataaactga gtaatatattt 120
gaaaagacaa gtttaaagta aacacatatt gccaatcata tcacatttat acatggcttg 180
attgatattt agcacagcat aaactgagtg agttaccaga aataaataat atatgttaat 240
ccaatttaag ataccaaaca gatcatatgg tacataacat cctgtnagan ttgtggcttt 300
atgtttacng aaagtcnatg cagttccngt ncaaanaaaa gggcggtagc 350

<210> 9616

<211> 551

<212> DNA

<213> Homo sapiens

<400> 9616

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tttagtctct gatgttacag attcagatga ttccctatagg ttatttaaag aattcatttt 120

<211> 600

<212> DNA

<213> Homo sapiens

<400> 9617

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 aaaaggaaat gtncaaaatg atgaagatac catagtttat ttcaacatac taagccaaaa 120
 aaataagaaa acaactaatt tatttgaaaa aaaaacaaat tctgtacatg caggcttggc 180
 ttgattgacc ataatgtatt tcagcaaaaa aaatttagat acaccacaca taataaagct 240
 ttctatgtac acagtaaata gtaaataact ttgctaaatg gccagacatt tgaaaaaatg 300
 aaaacacagt tgtaaaacaa agtatgtaag aatattgtga ccttatttaa ctgtacaaaa 360
 agcaatcatt ctctccagcc ttccatcttc acttacattt ttttaaacaa gattaanccc 420
 cnaattgaag ggattaaatc ctttctccct aatgccncgg gaatatnaaa ttcnctttca 480
 antctttaac tttttacaaa ggaaccaaac ncttaaaggg aaatngtggg aaacaaaaaa 540
 tttcaatcct gtgccatccc ccaaatccgc nggggaaaat tcccantccc taccattccc 600

<210> 9618

<211> 374

<212> DNA

<213> Homo sapiens

<400> 9618

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 tgcaccacca caccagcta attttggtat tttttggtgg agatgggatc cagctaaatt 180
 gcacaggctg gtcttgaact ccaggcctca agcgcttctc ctgccttggc ctcccaaagt 240
 gctgggatga caggtgtgag ccaccgcacc cagccagagg gctccttcta aaatggttgt 300

<210> 9619

<211> 544

<212> DNA

<213> Homo sapiens

<400> 9619

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aaagaaaaat aatTTTTatt atactttaaa ttctgggata catgtgcaaa aacatgcang 60
tttgttacat angTatacat gtgccatggt ggTTtgctgc acctgtcaac catctacatt 120
aggTatttct ctgaatgcta tccctccctt tgccccacc cagcaacagg ccctgggtgtg 180
tgatcttccc ctcctgtgt ccatgtgttc tcattgttca actcccactt ataagtgaga 240
acatgcagcg ttTggTTTTc tgttcctgtg ttagTTtgct ganantgatg gtttccaact 300
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tggtgtatat gtgccacatt ttctttatcc agtttatcat tgataaactg gttggnTTcc 420
aattcttgTt attgcaaata atgccgttat aaacatactt tncctgtttt cttaaataa 480
aaataattaa aacccttngg gttataccca ttannggaan ggCgggntcn aaagggaatc 540
ccgg 544
    
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<210> 9620

cattcttcan acttgcactc ctggctctgg tgctgcatcc tggaaaggac gcgctcgtan 360
 aacancangt ntgcgctgga ggacangacc tcctgcaggc tggccttgcg gacagtgtct 420
 cgganaccnc a 431

<210> 9621

<211> 498

<212> DNA

<213> Homo sapiens

<400> 9621

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 aaataatgtg agcgaanaat aggacttgte tctgtttttca cttataatff tcaaaagtca 120
 tgaagtacta ggcaaagttt ccaaaatgct tctacttaat ttaacctgat tctccccgcc 180
 acaccagcaa aatgcttttt atgttggtac agtaagtttg caaggtaatg atgaatacct 240
 gaattgcaga aattaggcct aaactctgat gacccttaat gtaaaccaca ttttaacgtg 300
 ttgagggtca ttatttgtat ggcacaggta tatcnggaaa naagatggat atactacccc 360
 tgggaagcca ttcagtctct cccttacaaa tgcctcctat cacatgacag gcattttcaa 420
 anccctgttt tnccttgte tcaaatnate atggtttata tttnccttt tgtgggcanc 480
 ccnaatgttn tttttacc 498

<210> 9622

<211> 549

<212> DNA

<213> Homo sapiens

<400> 9622

gcatattcaa ctgaagaaat ttatttactt ttttctaggt acatagatga cataattata 60
 gacaagtttt gatacatagg aaaacccttc cgtccacctc tctttatgct aaatgaatca 120

特平 11-248036

aagaacatat tggctactggt atattacagc tacttacaat gtttttaaga acagcaatgg 240
 agaaaaataa gttattttaa tattgatttc atatacagaa agtgcaatgt tgtagttgt 300
 tatataactt gctcgacagt ttcttttctc tatcaatttt aaatcaagat aacttgact 360

ccaactatta tatttttttc tgaaaataat acagtacaca catggcanca ntgacttggc 420
 aanttgacct tttttgctgc agttatgaaa gccaaacttn ctatttcngg aactgattnc 480
 cantaaatta ttatttccca ttccccct ncctgggggg ttcangaaaa aaaaagggc 540
 cnetgaata 549

<210> 9623

<211> 598

<212> DNA

<213> Homo sapiens

<400> 9623

aaagtggtag cacattttat tcacagagca atgaaaatta ttcctataaa ttaatgtgag 60
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 ggtganacac aagttatgaa gtaatganta cttctctc gtggttttta ctttaaaagc 180
 acatgctaan anctggatgc agtggctcac gcctgtactc tcagcacttt gggaggccaa 240
 ggcgggcana tcaattgagg tcaggagttc cagaccagcc tggccaacat agtgaaaccc 300

<400> 9624

| | |
|---|-----|
| gagacagagt cttgctctgt tgcccaggct ggagtgcagt ggcatgatct tggctcactg | 60 |
| caacctctgc ctctgagtt ccagcgatct cctgcctcag cctcccaggt agctgggatt | 120 |
| acaggtgtgc accagcatgc ctggctaatt tttgtatitt tagtagagat ggagtttcac | 180 |
| catgttggcc aggctgttct caaactcctg atctcagggt atctgcccgt ctcagcctcc | 240 |
| caaagtgtg ggattacagg cgtaagccac tgcgcctggc ccaatgtgtg gttgttatta | 300 |
| gctatgccct ttaccgaact ctttttcttg acctcctata cctacacctg ttgtaaagaa | 360 |
| acaaatacaa aacaggattt cagcaaaaca ctaaaagaag agcgttctag ttttttaaaa | 420 |
| aatttaantt ncttgtnggc acataacaat gaactcntgn ttncnc | 466 |

<210> 9625

<211> 500

<212> DNA

<213> Homo sapiens

<400> 9625

| | |
|--|-----|
| cataananta ctttacttgt ggatttcttg gntaaatgta ttaacatttg tttcttctca | 60 |
| ctaaaagtcc acattttcaa caaagctgta tgtntaan tganagtttc attccacttg | 120 |
| ttcttttcgt aactgggtgta agccaccagg ttctccgtgt actgcaagat cgactttaca | 180 |
| aacttttaggt actgctgata ctcatgcgca ttcttccac aaacagcatg aatgttgacc | 240 |
| aactccagcg caatgagtaa cagtatcagg ctgagcacag gggacagtag tctgatacta | 300 |
| ctccacatac gcaggtantt ctgccgctgg cganaccgca gcgtcctttc caccactgc | 360 |
| ctgtgtctca gctctgangc aacgggtgacc tgggctggac acacggcggc actgttcgct | 420 |
| gatgcttcgg ancacaacca gcacttccag cacaatcctg ggggnaaaaa nanggtnga | 480 |
| aaaagtnntc tgcaaaacnc | 500 |

<210> 9626

<211> 584

特平 1 1 - 2 4 8 0 3 6

<212> DNA

<213> Homo sapiens

<400> 9626

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tgatattact attaaatagc tatgagctag gctttccgta aagtatcccc tggatggcaa 180
accagtaaga anagcttata aacttcactt cttctgggtt acaatctctt atctttctgg 240
aacggtaaag cacaatgggt gaaattagac cccttaaaaa aaaatccaat gctgtatatt 300
tgctttatca taacatgtat ccctacatgg cacttctcaa naatggcatg gcagggangg 360
atgtnatate ttaagcatgt tttctcatta tgcacttgta cactgtgcat tggtttatac 420
ttaatttggt acattttccc taaaataatt attctctgct ccttcctcac aacaatccca 480
attccccccc ncccccnct attatgaaga agcttaattg gacnaaaana attttngagg 540
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<210> 9627

<211> 573

<212> DNA

<213> Homo sapiens

特平 1 1 - 2 4 8 0 3 6

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attntntta tccacnctt tttttccact agg 573

<210> 9628

<211> 351

<212> DNA

<213> Homo sapiens

<400> 9628

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acaaccaag ggtggttgaa tcaaactcag ggaattagag gagcatcagc caatgcaagc 120

aggtctatat aaaatacaca tcatttataa atgcacacag cagaaagcac agtggcccca 180

gaggaccagg cagggggaca acagagagaa acagagcact atctggaggg acaggcacac 240

ccgcaacact caaagccctg ggccccaant gcacctcaa antcacctac gctgcancat 300

ggctcttgcc ctttctganc ctgggtntac ctnaaaacca atttcaccan c 351

<210> 9629

<211> 581

<212> DNA

特平 1 1 - 2 4 8 0 3 6

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 tccaaancct tatgaacnaa aatgggttaa naantttaaa ttggcaaaat aacttgaaat 540
 aaacaaaatt tnggcnaaaa naaaaaaatg gcctttttta a 581

<210> 9630

<211> 608

<212> DNA

<213> Homo sapiens

<400> 9630

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 gatcaacctg cattttatcc atattatctt tgttttcatt tttaaatgaa gtttctgtct 180
 ccattggagc atcactgtga tcgccttcca aattttgctt ctcaattact gatgcgctag 240
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 gcatttcatg tnaattagta taaaatgctt ctagttcaaa tggttccntc ttgtggaaag 420
 taatgacttt tganaatggg gcaggatggt tcttacanaa aacttcacat tcccacttcc 480
 atcctcaaaa naagtctccc cttaatgtga ttgaataagg aacaangtct gttatggaaa 540

特平 1 1 - 2 4 8 0 3 6

tcactgcaat ctctgcctcc cagattcaag caattgcct gcctcagcct cccaagtagt 120
 tggattacag gagtgcgcca ccatgcccg ctaaattttg tgtttttagt agagacaggg 180
 tttcaccacg ttggccaggc tggctcga ctcctgacct caggtgatcc gccacactcg 240

gcctcccaa gtgctgggat tacagggtg agccaccatg ccagccaat ttctttcttt 300
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 gcctgcttta tattgtatat taaaataagt gatagtagca tttcattatt actgtatccc 420
 tgtcagttat gatttctgta ttcattatgt acttttttac tgaaagattt taaaagttgg 480
 cacaattata aactgcacta gtgctttaat ataaaagaga gatgggtctg ccaccagtta 540
 agttcnnnnn nn 552

<210> 9632

<211> 590

<212> DNA

<213> Homo sapiens

<400> 9632

ganaaggnc cactctgtca ccaaactgga attgcagtgg gcgtgatctc cactcactgt 60
 aacctctgcc tcaattcaag cgaatcccct gcctcagcct gaataactgg gaataacaatg 120
 gggcgccngg ctaaattttg tnttttttagt aaaaaaaggg tctcaccgtg ttggncaagc 180

特平 1 1 - 2 4 8 0 3 6

<212> DNA

<213> Homo sapiens

<400> 9633

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tatattattc tccccaaaag ctagctgctt ccaaacttga tttgatattt tgcattgttt 180
ccctacgttg cttggtaaata atatttgctt ctcctttctg caatcgacgt ctgacagctg 240
atatttgctg ttttgtcaac tgacgtttca cttctgttt caccagttct ggaggaattg 300
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tcatagctcc cacattttct tcatctctga aaggcctgaa ttctctattt aatgacaaca 420
aggcaattag atgagggcat catcttcata ctcgtcagaa gccacagggg antcctcctg 480
aactctctga acatctgcct gttgtaattt nnnnnn 516

<210> 9634

<211> 572

<212> DNA

<213> Homo sapiens

aaacanaant ttttncnnc ccaatgctcc at

572

<210> 9635

<211> 465

<212> DNA

<213> Homo sapiens

<400> 9635

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 ttgaaaaccc aggccagaca tgcttgatcc ctgacacagg gangccctct ggtccctctg 180
 ggatgaanca ttcattggaan gcccatcttt ctgggttttc cantctgggt agtgggcagt 240
 tgttcaccca cagaacacag gggctctgtc acacttgagc ctgggcctg aggactgacc 300
 atgccagggg acttccattc caggagacc ccttcagggt aaggagaact gancatttgc 360
 ttgcatctcg ctgtcanctg gaatgancgc actgggaagt ncaaaaaacc catngctggg 420
 ttttgggcac tggctttntt attactnta gggcaaaact ggcnc 465

<210> 9636

<211> 594

<212> DNA

<213> Homo sapiens

<400> 9636

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 aaataagctc agaaanaccc agtgccactg tgtggccaaa gacttacgga cagaaaangg 120
 antgaggcac aaaaagcana agtgangcct gcaaacagca ggggtggctac agctcgtgtc 180
 tggtttattg aaacagantt tgaagtgtg ctgcctgtga ctgattcaag antaagttac 240
 agtgtccaca catccaatta gatgactgtt cactacgtat ggagaaacct ataggctaaa 300
 cttacagtat gtaaggangc ggcttcaggc tacagctgaa ntaatgtgtc cttacagttg 360

gaaccaggag ttcattggaa ttcttcatca tccagtggtc tgtaaagtgt cccatgctga 420
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 ctttaagtgt gcccctccta attattnttc ctaccgggtt aaccagggtt cttgggaatc 540
 ccccccccc cgcncggtta tntttcccc ctntttntt ccccggtccc tttt 594

<210> 9637

<211> 588

<212> DNA

<213> Homo sapiens

<400> 9637

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 agttatttct tgtcttctgg tagcttttga atttgtttgc tcttgcttct ctagtctttt 180
 taattgtgat gttagggtgt tgactttana tctttcctgc tttctcctgt gggcatttag 240
 tgctatacat ttctctccaa acattgcttt agctgtgtcc cacanattct ggtacattgt 300
 gtctttgttc tcattgggtt caaaaaactt atttatttct gccttaattt cgttatttac 360
 ccagtaatca ttcangaaca aggttggtca gtttccatgt tanttggtcg gttttgaata 420
 atttncctaa tcttgaattc taatttgatt gcactgtggt ctgaaaaant gttgtaattt 480
 ccgttctttg cattccggtg tgtattgttt acttccaatt aatttggtca atttnaaaan 540
 aatttcaann tgtgccgcca aaaaanttn tncggttaaa ttaaaatg 588

<210> 9638

<211> 547

<212> DNA

<213> Homo sapiens

<400> 9638

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特平 1 1 - 2 4 8 0 3 6

ccaccctcca atcttacttc actttacaac caagtatcaa tagaggctgt tccttcatgc 120
gagctgtggg agtatataca tcattgaata acagacactc cagaaatcaa cagatgtaca 180
ttatttacat attactatat ttaccgcaaa tagaaatatt ttctaagaaa aaaagtcaat 240

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tataaatanc tcctattttc agtttggtac cacattaaac tgccccaaaa tgttctgtga 420
ccccaaanac acaaagttgc tgcttatctg ggtccagggt cagtacaatt aaactcaaat 480
atnaaccagg gggggccanca aaanaggctg gaaaggntgt ggcatcccc ccnccccngg 540
gggnccc 547

<210> 9639

<211> 553

<212> DNA

<213> Homo sapiens

<400> 9639

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atgtatatac gggagctttc ttacatcctg catggatgcc tgaggttcca ccactaanga 120
gtcttgtccc taagtgaana antcattaaa gctgtttatg taaagcctgt gtcttggaga 180

<212> DNA

<213> Homo sapiens

<400> 9640

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 cgggggttgan gtcacgcatn aangaaaang gtaaaaactt gtgatggta agatcccttc 120
 agaactctgg tgcagtcctc aatcactgca gctttactgt cagtcagtgg agctgcaatc 180
 cnaaagacgg aaaatcgact cctgttttcc atttctgtgt ccagtgactc ttcanttaca 240
 gtgtgatgag gtctaccagg ttgcctttag gaggagtcnt gctgtcngga aagaaattta 300
 ctaaggtgtc taanaactga nttctttgag cataggtgtn atccacatca gaaaanccn 360
 cagctgttaa atctgaaccn 380

<210> 9641

<211> 513

<212> DNA

<213> Homo sapiens

<400> 9641

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 gaacaacagc aacattttaca gaaaactgga ttacagatgt ttaacaacta atttgtttga 120
 acccaaacat tgtttttacaa atacctgtag tttaaaaaaa caaaaaaaaa aaaccaatcc 180
 cccaaaccgc cccaactcct cccacaaaag aaacaatggt aggaatagac caaaaactca 240
 aatatggtcc ttacagtaca taagaataaa aacagtaaac tataaacttc taagtgttaa 300
 ctctatacta aaccactttg cattagaaaa attataaaat aggatggctt tagtccactt 360
 tatnttttaa aataatcaat tttaatgctt antttcccca aaacaggagc ttaaaaanca 420
 atttgttact aggacatttt gtcgggatac antctagggg aaaggacata acaaancna 480
 naaacaanat agggacgcac taatggaaac ccn 513

<211> 519

<212> DNA

<213> Homo sapiens

<400> 9642

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tagctacttt atccttatct aggacagatt ccaagcatag gcagctacag tctgaaaaga 180
attattataa gctagaatth ttctaagaaa aanatttggt ctcaggaata cgaaaataga 240
tncaaggaa tgacccagac atgacaataa gtctaacaaa gttaacacta gtaataatgt 300
gtcagataaa aggtagaact gagctaaaaa cttnaacttt aaaaatgttc agcaaatcaa 360
taccngaag ttaaagantc ttgaatgttc tagttcattc ttctctccat tttaggtact 420
ctcttaatgg catthttatg gtnagttgaa ttacctcaga anctgncgtg nccctcctgg 480
atgcccccg aaatccnaat ngggaangac ctctcccc 519
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<210> 9643

<211> 535

<212> DNA

<213> Homo sapiens

<400> 9643

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ttattataag ataggtthta tgtagatga taacaccagc atcttgctca ataaattgaa 180
gccagcttht tcaacagaga acattattag aatgaaacta gatgcaagaa caggaaagta 240
aacacctgtg tcatgttcaa caagactgaa ctacggagca aagaatcaca cagtgttgca 300
agatcttgaa ctgactagat gataggattt ccaaaaccac acngctattg ctggaaaatt 360
atgtcatgca gaagaacaga ctggcacgan tacatatgtg ggthtgcct acacaaatca 420
aacctthaag tgaacaagt ctntccaacc atcttcccat aaaacctant ttctatggga 480
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aaacaatcaa ttaagcctaa nccccncct ttanatttt tnttcntta taaaa 535

<210> 9644

<211> 597

<212> DNA

<213> Homo sapiens

<400> 9644

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ttgggaacac ttgtttttca taagctgtcc tgacagtgn acaatcccat ccatcttcag 120

gncttttaat aaggtcatta tgaaatctga atttctatta atactctggt gcattcattt 180

catctgcaa agcaactggc acaaccactc ctgcccgtg cagctctcg anaacatcta 240

atattgagtc tagttctgtg cggaacttct ccagctcacg attctttaac tgtgccagtc 300

ttttccattt ttcaacttct ttgttttget cagtttctac tacttggtgt gtttgctgta 360

ttatctgtg aanttcctgt tctctttgtg catgtctcat ttccatctgc ttaattttct 420

tttetaacce acnaaatttt ccaccccgn gttinggttt ccttgggctc ccccaatcc 480

tccaaaaaat ttgtaacce ttccggtaaa aatccccca aatccnaaa atncaaaaaa 540

acctgnntac cccgcccccc attaaantna aattgggaaa tttttaaaaa ttncen 597

| | |
|---|-----|
| tcctgacctc ttaaacacca gcttgccatg agtccacacc aaaacaggga gccaatacct | 300 |
| tccagcacct aatcaggcaa gtnacttcac tcatgaaaaa caggacacct ctataccaag | 360 |
| gctgccaccc acagatattt cctgggtgct gctctataac aatacctgct ttigaacaaa | 420 |
| <hr/> | |
| cntggtatct nctatttggg gattataatt tctcccgcca gttttnctca aaactcncag | 480 |
| gaaaaattaa aaatttggca aaaaanccta ccnctttgac cccnaaaaa ataattccaa | 540 |
| aaaccccccc nccccna | 557 |

<210> 9646

<211> 459

<212> DNA

<213> Homo sapiens

<400> 9646

| | |
|--|-----|
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| taaaggacaa agaaaaatta ccaacacttt gggctcttcc cgaattctct cccctttctc | 120 |
| tggtaactc caccacactt cactctcaaa ngaaaagcac agggggaaag aaatgagtga | 180 |
| gggggctcaa aaaaatctgt gtggctccta ccaccccaaa catattctgg ttccccgaaa | 240 |
| ataaaaagca aggcttgctc tgatctttcc cagtctctcan antccancag gccgctgtgc | 300 |
| tggacacata catggatcca ccaacataca tcantccttc tgtgttctct cctgcatggt | 360 |
| anaagctgga acctaanaac tatattcccc caaaattccc gccacccan gaattngctt | 420 |
| taaattccct aatgaaaagg cctnctaaaa aaccnnaat | 459 |

<210> 9647

<211> 508

<212> DNA

<213> Homo sapiens

<400> 9647

| | |
|--|----|
| gccagtcag aaacgttttaa tanaaataaa aaggtctgca tanagccan gctcggagcc | 60 |
|--|----|

特平 1 1 - 2 4 8 0 3 6

acccctctgc cgcacatcca gtacagagag gattctataa agttcacact ttttcattaa 120
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<210> 9648

<211> 542

<212> DNA

<213> Homo sapiens

<400> 9648

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 cgtgggcccgg ggaaggccca aggctgcanc acatctacac nangggtcag caaaacttcc 180
 ancggtttcc acactcgttg caaacaacaa aggtggtcat gggctcatca aaactgcggg 240

特平 1 1 - 2 4 8 0 3 6

<213> Homo sapiens

<400> 9649

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gttctatgat cctacagttc tctgactcca anaacctaen aattntatcc ggttctataa 540
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tncc 604

<210> 9650

<211> 603

<212> DNA

<213> Homo sapiens

特平 1 1 - 2 4 8 0 3 6

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aattgaaaaa aaaatcccca ncccaattg atnccatctt ggagggctna accnttttaa 600
ccc 603

<210> 9651

<211> 605

<212> DNA

<213> Homo sapiens



<400> 9651

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tgttgttgtg catggtggaa aaattttcca tactgttctt cgggcatctt tgttaaactg 540

特平 1 1 - 2 4 8 0 3 6

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gactttatct ccgaagcctg cctggtggga acgggcttgg cacaaaanga nctgcanaat 180
cctgctgctg attggcagat gcatttctga actcagcggg ggctggacac tgagcangac 240

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gatttttttt ttttttttga natggaatct cactctgttg cccangctgg anttnaattg 420
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<210> 9653

<211> 538

<212> DNA

<213> Homo sapiens

<400> 9653

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ctacaaccac gcaccaccat gcctgcctaa ttccacttt tatttttgta ganatggggt 180
cttcctgtgt tgccctggct tgtctcaaac tcctaggctc aagaaatcct tccacctcan 240
actcccaaag tgctggatta taggcgtgag ccactgtacc cagccagttt cttaaattga 300

特平 1 1 - 2 4 8 0 3 6

<400> 9654

| | |
|--|-----|
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| <hr/> | |
| natttgtaaa ccaaaangta attcctcaag tatttgaaa taaggaaaag cctccctacc | 120 |
| accaaccttt tggatcatctt tctcattctc ttacaatcat cctaattccc tagtacaccc | 180 |
| ttaccatata tcaataaggg caccataata ttatgcaaag aacagatata tatgcctgat | 240 |
| ctcttattag acttgcacca gagactgttg aaccactcca ggcatgaact ccaaagctga | 300 |
| ggcacactga ccaagcccct gggcatctac agaagcaaag gcgttctcgc tccagctggc | 360 |
| tgctccttct ggaagagccc tttaatctgg gttaatcggc catagancct ctctctcaat | 420 |
| ggaagaatgt ggtanctaag gtccaaaatg tttgtcctcc gcgtctctc tcttgettcc | 480 |
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| tttccctta nnccanntgc ccc | 563 |

<210> 9655

<211> 574

<212> DNA

<213> Homo sapiens

<400> 9655

<210> 9656

<211> 474

<212> DNA

<213> Homo sapiens

<400> 9656

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atagtcccag cttgagctca ttcaatcaac agcaacaaca taagctaata tanaccgagt 120
tcttttgtgc caggtactat tcttatgctg aacttacctc atttcattcc atcccatcaa 180
cagccttgtn aagtaagaaa aatgaaactt gctcagcaag aatgtnaaac caggctgtca 240
agctccaggg cccaagcatt taaccacat tccgtgctgc caacctantg tcnatttcat 300
ttccagcaca agtnatncaa tctgaaaanc cacttgcttg gaacaatgtt gctttccttc 360
ttcaacacna attaccccc aagaataatg acnttcnacc ccatttctnt taaaaaggaa 420
acaggacaat tgggtgggtcc ncncgtgtggg gganatcaat gctactttnt acct 474
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<210> 9657

<211> 586

<212> DNA

<213> Homo sapiens

<400> 9657

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gaccaactaa atggcatagg taagcatggc tgtggccacc catacacata cacacacctc 60
atatttagag tgtgaatata tatcattgca tanattccac cacgtggaan anctctatgc 120
ctgtgggtgt atatacccta nagatcagaa tggatggttt tccagaatta atganacttt 180
gaatgatgca gatgttggcc tttccccaaa ataaaagggtt tttaaattaa tagagcaaca 240
ggatgcaaat actgggcaaa ttataagaaa tcataaagtt gaatctcana aagcatatgt 300
tcagttttgt nactgaaggc tgttgaaaat ttctnctctc tctctttgaa naatgaaatg 360
caaatgcctt ttagcaatgg cagcattcaa atcccncaaa aaatcangca ggggcccctt 420
```


特平 1 1 - 2 4 8 0 3 6

aaggaatact ccattggcca aactgtaaaa cctgctgggg ttaattnaaa ttgaacaaat 480
nctcacaatt cttccctct caaatttccg aaactggatt tggaaggtcc gatanccncc 540
ctttccggaa tgcccgggcc cnggggttta aagatttgga cncnn 586

<210> 9658

<211> 621

<212> DNA

<213> Homo sapiens

<400> 9658

cctactctgg agtcctatgc ccagtcgga gtatttgccg ttgttatgtc tgccaatcat 60
gtttgaaact attcctaacc ctaggagcat gggaagtgc tagtacaaca tgtatttcca 120
aactgaatt tgtccatctc anaacananc ccattagta ccctggaggg tccccaagct 180
gctggtccgg ggcgtggcag tcacagtga ggaggagggg acagactgga gcacagctgg 240
atccacgatg caaacctttg gcccacaga agggttaacn tgcccanang acacacagca 300
aggtgccccg tcaactgtgc tcgganatct tcttggccac agcacctgcc ctctgtccca 360
ttcaattcaa ttcctccgca acctnagga gaaacagctg agctagaagc agacctccat 420
cctgctctgc atctcangga cagatgaagt ggganccgag gaacccttaa aaaacgggcc 480
ccaagtaana atcaaantgc ttacnaaca aatctgggcc ttgttataaa actttgggtt 540
gcangatntt ttaactacca aaaaactatt gctccccccc caaggngaac ccaaccctaa 600

| | |
|---|-----|
| ctggtcntcc attctgggca cagtgtgaca ttacctgaa cagaaangaa aatggcncta | 120 |
| naaaatgang gaaatttggg tgcctaaaaa ttactacaaa cangcagggg cgcaatggct | 180 |
| cncgcatggt atcccacact ttgggaagcn aagtgggtgc atcaccaagt caggagtttg | 240 |
| <hr/> | |
| agatctgcct ggccaacatg gtgaaacccc ntctctacta aaaatacaaa acattanctg | 300 |
| ggtgtggtgg caggcacctg taatcccanc tactcnggag gctgangcan ganaattgct | 360 |
| tgaactc | 367 |

<210> 9660

<211> 489

<212> DNA

<213> Homo sapiens

<400> 9660

| | |
|---|-----|
| aaagaagtta tagcacagtt tattaagcta gaaatgaatt ttaacagccc tgtctcagtc | 60 |
| tgaatgaggc aaatttaggc ccacatcatt aggtatttca caacttaaca cctaaaattt | 120 |
| aacataaatt tacaaaaata aggcttattt taaagtcac tggagaaact gttttacagg | 180 |
| tatcttaact ttatttagct ctctgtagaa ttaacatctt tgcaaatata ttattcaacc | 240 |
| aagcatttgc cataaagata agcatcaact ttccatttgg acaagtata gtgttcaagc | 300 |
| tacttgactt gtgaaaaaca aaaaaccacc atgacttctc aacaaataca ttttaaatg | 360 |
| aaatatgctc aggctgataa acaaacaaaa tattnaaatg ganactgaca ttgaactncn | 420 |
| tagtccttg aaaaaccna aaaacantgc cctataaat gatattttat nggctttaca | 480 |
| aaaacatac | 489 |

<210> 9661

<211> 534

<212> DNA

<213> Homo sapiens

<400> 9661

特平 1 1 - 2 4 8 0 3 6

gtttttaacc ttaacttttt ttataatata tacatacata aaaactgcac aaagtatgtg 60
 tcaacaaaat acagtcttta aaacttaaat atcatttaaa cagacttaat tgcatacatt 120
 ttatatacgc acaaagtcag gatttttaca tggcaggga atactgtgga atgatgangt 180
 ctgcaggaga cagatgctat caaatganga ctctgggggtg gtattttcta aaaatggggt 240
 tctgaaataa atttttattg tatgtagctt attttacttc tnagaaggaa caaaagatac 300
 ntttgggcag ccnaagtatt tctacttctt gcttaaaaca tttcnggcga atgaaatgat 360
 tataataatt aggtaagcca ccctattaat ncccncggtc tncagtttct tatctttcta 420
 aatacctaaa aaattttatt nttentttct cccctacccc cccctgcctt tctnaaatta 480
 tnttttgaca ttttataatn tttgnaaaat aaccaaaaat tntttttaaa aaaa 534

<210> 9662

<211> 481

<212> DNA

<213> Homo sapiens

<400> 9662

aagattttca aaatattttt atatagaaat tttttacaaa gattttacaa catagcaa at 60
 cattatgtca tactgtagaa agatgaagca aaggattaaa ctccaaggat aaagaaagtg 120

tata aacggttaag gcaaagtacc 180

<213> Homo sapiens

<400> 9663

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ggaatgtgc ttttattttc aaactcaggt atgtgacact ctacagttca atgctagcac   60
acctgtgtga ggcttaacaa catgaggaac tgatagccag tgatacaca atccagcact  120
tcctctccat ttactctgtc aggctgtata tggggagcaa cacatatggc tttgtggcag  180
ccagaaagtg aaggtctttt taggaggtga catcaacaat gacacaaaca catcactctg  240
caactgaagg caggggaacca gactcctagg gctaagcaga gatgtcagac ttcagaggca  300
tttgggggac tcttcagatc cacatcctca ctgaaaatcc agggcctgtt tctctccagt  360
tcactaccgc ttgggcagca gctcccactg cttcaggctg gtctttgctt tccagaaaag  420
atggactcat gagcactttt tcagcccctg tatatatggc tattcttatg ctcccttttg  480
gagatntntt tnnncnnaac nccc                                     504

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<210> 9664

<211> 594

<212> DNA

<213> Homo sapiens

<400> 9664

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agcattaata catttgtcat ttattaaata atggcaaacc atagcatcat aaagtattaa   60
gactgaaggg ctactaacct acctattcat tttaaagatg aggaaacaaa tgccagagac  120
agtaataact tgtcaggagt ttccagaatt caattctcct tttttagatt aataaattag  180
accagatttc ttcccatgg ttactgtctg aggagattaa ctaatatgcg atacatgatg  240
tcttgggttc tttcatgttt aattcagttt gttgtgattt ctaaaaatgt atctctttta  300
aacaattgct gctgtgcaac agtgtgatgg caagggaaca gaaaacaaca aaaaaacttg  360
attgaatact tcaatcaaag tgcttctttt ttatgtgagg ataatcata ctgaattaag  420
gggaaattta agaatatattt ttaagaaata acaatttcag gtaggcaatt gtgaggaaaa  480
taacaatcat acagccaagg ccacttaatc ctccccaacc cccagggtna aaaatcaagc  540

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<210> 9665

<211> 587

<212> DNA

<213> Homo sapiens

<400> 9665

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agtaattctt atggtattgc tgggtctctc aggaatatgt atcatttgat tttgagcatg   60
tggggttaag gtattanatt actaccacaa accgtanacc cctgcatggc accacattta  120
ttttcaggag tagatgttac atggcaggta tcaaaatgtg atgatcaatt ctgtgttttc  180
tgttgattaa acctcctcat ttggttaa atagccagtgt taccanaaag ttctacacag  240
gtcaaaatta tatcactttt agagcagcaa tacgtgatcc aaggttttct tgaaggtagt  300
gcaaaanatg cagttcataa tgttctcccg attcaggaac tcttatgctg tgtctctcct  360
gaggatagat ctgtaaata tatggctttc cagccctcac taaaaaactc agtaatatac  420
tggtatgtgc aaaatggaca ttctcatcca ggaaaacat gttaagaaac agtaaacaat  480
ttggttcana agggaacttt tctgcttgca tggccncaa tcctaattaa taaccctgtt  540
cattctggtc ngggtaaccc aaaaaaantt ccgnnttccc gtttccn                    587

```

<210> 9666

<211> 492

<212> DNA

<213> Homo sapiens

<400> 9666

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gagatggagt cttgctgtgt caccacact ggagtgcagt ggcgtgatct ttgcttactg   60
cagcctctgc ctcaaagggt caggtgactc tctgcctca gcctcctgag tagctagaat  120
tacaggtgcc cgccaccaca ccagccaat ttttgtatct ttagtaana cagcgttttg  180
ccatgttggc caggctggtc ttgaactcct gacctcaggt gatctgccc ccttgacctc  240
ccaaagtgtt gggattacan gccaccgtgt ccggccaact ttttccttct ttacacgttc  300

```

tgcccacaaa aaaaantgta acatattgct gcactcanca caaaaattat gttacccttt 360
 ttnggtncctg cncatcaaac gtatgggtgat gtatnccttg tcctaccctt attgtgaatn 420
 tgagtcccn gcctgggtccc tgtccacaaa ggggcaatnt tatacatctc tgggcccntc 480

anccactnga at 492

<210> 9667

<211> 501

<212> DNA

<213> Homo sapiens

<400> 9667

gganagacag gggctctatgt taccgaagct ggtctcaaac tcctgagctc aagcaatcct 60
 cccactttgg catcccaaag tgcananatt acaggcttgt gccaccatgc ccgaccaga 120
 tcttattcat tctatctaac tatatttttg taccattaa ccatctccac tcctcttgaa 180
 actacccttc ccagcctctg atatccatca ttttactcca tatctccatg agtccactgt 240
 tttaattttt agctcctaca aataaatgag aacatgcaaa gtctgtcttt ctgtcctgac 300
 atatttcatt gaacataatg acctctantt ccatccatgt ttgcaaag anangatctc 360
 attcttcttt atggctgaat agtactccat tgtgtatatg taccanattt cctttattca 420
 ttaatctatt gaaaggaaac ttaaattcct nccaaatctt anctatcgtc nntatttctg 480
 cantaaacat gggantgcaa a 501

<210> 9668

<211> 435

<212> DNA

<213> Homo sapiens

<400> 9668

aattaatttg aggtangaca caaaatatac aatanaattt tttgtgaagc actgctgaaa 60
 gntttttact ccaagaaaga tcatacatta ttctttgttg acaatgccag ggtgattcan 120

aaagacaagt naaatgttag ccaaggnaat gcacaggagc gcagancagc cgcactccag 180
 cccctcttct ctacagtttcc ttaggatcct ctattaccgc ctcccccca ttcttaggcc 240
 cagcctgtca ttctctctta tggagttact gccagattgc cttgcctcac tgtaactgga 300
 acatcaattt tccccatgaa tctgtgagcc ctgcaaagtc aganactgtg ccttgctaac 360
 accctantcc tcaaaagcac acaacagagt ncttgacacc cacgaagctc tcangangca 420
 ttgctgttga ntatn 435

<210> 9669

<211> 344

<212> DNA

<213> Homo sapiens

<400> 9669

gacactgctc tancagggga aagtggctgc caccatcttg ttaccgccag gtgaatgcag 60
 gcactctgggt ttctactagg gtgtcaactg gccaaaggant gggggaaggg tatgtgcctc 120
 cttactgctg aatgggggtg anaatccana attcccacgt ggtctccact gaaactctgg 180
 gancggacaa acttccttac tgaccagtgg ggatnaaatt tctggctcct ggcttgggtct 240
 tctctgacac caccacagca agggganaan tctcacttga ctcanccctt gctgggtgng 300
 gtgaaggggg accacantgt ttctgtgggt gttcanctgc anta 344

<210> 9670

<211> 359

<212> DNA

<213> Homo sapiens

<400> 9670

gtctggaaac attttttatt ttacaaactc nggtnagggg aaagtgtga cattcngggc 60
 tggacactac gcacgaagaa aacaaggcca ngggttgggg gataaactta aggttccat 120
 gctttcnttg ggangaaaaa canggggtcc tcatatctcc accaagtatg tnaccaaacac 180

aaattcaatg tencatctgg cactggccca naaaaangaa ccactcaccc agggtcaccc 240
 ancaagcatg gccagggtg gtcacactgt ggcctgacag gggaccaca ctctgggctg 300
 ctgatatggg ggancctaan gaacangtcn gcanaagatg atgctgtcan ganttgggg 359

<210> 9671

<211> 624

<212> DNA

<213> Homo sapiens

<400> 9671

cactaaaaga tacaaatatt cacccaagtt tattgattca aagacatgca tttttttcat 60
 cagcagtttt ataataatca caattcctaa accaagcact ttgtggaaat ttgctccttg 120
 ctatgtgttt tttccttaca aanactttcc accagtaaga ttgttacaat gtaaggtaag 180
 aaaacagtgt gaactatgtc acgaatagtt aatacagtat acagtattaa gatagttttt 240
 ctggtctcta aagaaatggg actttagaat tcagtgtgtc tcanaaataa ttctgaccat 300
 taagtaaaca tcaaaatttt aataaataac ataaatgaaa aaacaaacac cttttaaaaa 360
 ttgcttatac ctaacaaaac aatttctttg atgaagggtc tggttggntt tatcttggca 420
 gtgttcattt ttatacaatt ttigaattgc atttactcca ttctgatgaa attcccctct 480
 ttggaatccc ngaanaaatg aaaccatac tgctaccata ttgtgncctc ccgaaatgct 540
 tcnatcccct tccgaaccna atgaacaccc ccgccttgna anacataaaa naacantttt 600
 tgtgccgtac cgaaatcctt aaaa 624

<210> 9672

<211> 607

<212> DNA

<213> Homo sapiens

<400> 9672

gaaattgcag aaataaattt tatttttaat ttccagaagt aaaaaaagtt ataatacttt 60

特平 1 1 - 2 4 8 0 3 6

aactgttaac aagggnntag ctgatatcca gttaccta tactgcatta atgtttttat 120
tcttttcttg aaaatactca aatacaccta cattgtgctc ttttaaaaaa aaaataagga 180
tacttacatt taaaaagttt ttgaggaan aaaattgtac aacattcatg tttttcatga 240

cactgaatga tatatcaatt tatctcttag aanaaaaagt agcataatta aaatcactgg 300
ttccctaate ttcaactctc tctccacaaa taaaacctac ctcttttcac aataaaaaag 360
caaaaaataa tatacaatcn aaaggagcta aactgaaact ctttatcccc ttgtcaaaa 420
nataaattaa ttgttgggan atcaacataa caatccnccc tgaatttttt ttcttttacc 480
atttancctt ggtcaaaaaa naaataataa tctatancce aaaatntttt aaactcctat 540
cccttttccc cttatctgta aaaaagaaaa tggttttntt ttttaanggaa cttttntttt 600
tttttnc 607

<210> 9673

<211> 468

<212> DNA

<213> Homo sapiens

<400> 9673

gctagtgcgg agttttattg gctacaaaat agatgcaaaa tgatgagaat ctgaaggntg 60
cagtaggaaa gtagancctt accctcataa actcgcactt tgattagaaa agtgcaatat 120
attaaganca ttatganaag tctggtgaga ctgttacaga aaaaaaaaaa taaaagtttc 180
tgantctgat aattccaagg gtatctttta naactcactc actggtgtct gtgcagggac 240

<213> Homo sapiens

<400> 9674

| | |
|---|-----|
| ccaattaatt cctgattaga taagtcatct cctcctccat tttgaataat attatttact | 60 |
| tggatcatctg ggaaacttaa tggtgntta ttttggaat tactgtgna catgtttaat | 120 |
| tctgtaactc ccggtgaact caactgtgct tattactctt cagttccaaa ttatcacaat | 180 |
| caaaatcgta agtgggtggt gggctctttg ancagtatct gtttggtttt ctcgtgcatc | 240 |
| atttttcatt gatttcctta tgtcacggga cagatcttcc agttttctgt ttttgtttgg | 300 |
| gtcttttccc tgttcttttc accagccctc aggccaggca cagtggctca tgcctgtaat | 360 |
| cccaacactt tgggaggctg anacagcgga tcactttag ccaggaattc ganaacantc | 420 |
| tgggcaacat gacaaacca tctcttaatt gttccaaaaa attatccatg tncctentnc | 480 |
| cattttcngg aaatnccaac | 500 |

<210> 9675

<211> 552

<212> DNA

<213> Homo sapiens

<400> 9675

| | |
|---|-----|
| gagaacgaat cttgctctgt cccagggctg ggantgcagt aacgcganct cggntcactg | 60 |
| caagctccgc ctcccgggtt cagccattc tctgccccca gcctccanaa cagctgggan | 120 |
| tacatgtnc cgcaccacg cccgntaat ttttgtatt ttagtaaaa acagggtttc | 180 |
| accatgttag ccangatggt ctgatctcc tgacctcgtg atccacctgc ctacgcctgc | 240 |
| caaagtgctg gggattacag gcgtgagcca ccgcacctgg gcccacctt gatttttaag | 300 |
| gaaacttcaa cagagttct tccagtcctt tttaatgat ggacactgtc aagaagtaaa | 360 |
| ttcacctaa taactggttt atccanaaag aaaactgact cctcattcaa atggcattat | 420 |
| attacccca cctacatttc ttacatt ca accat ttt tt ttaattt taaccccaaa | 480 |

<210> 9676

<211> 531

<212> DNA

<213> Homo sapiens

<400> 9676

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aaaaaataaa atgttcgcac aatggganaa aattgcttta agtggttacac cttanccaac   60
agancccaaa ctccgtgttt ccgttctttc tctttcgggtt tctgctgang gctgggtgaca  120
cactggcctc ttgtcagtgg ctgccggcag ggccaggaac aaaatanaac tgcagcacag   180
ctcagtccaa aaagcgctgg caggccttct tccaccggca ggccgtgcac cactggtccc   240
ggtgctcgat gccatacacc ttgcggcact tcttagcctc ccctcgggct ttcctggcac   300
cactctgggc ccgggggtgga gaggtgacca tcanatgaga tttcatnca ngtgctggct   360
gctggggctc gctgaactta ncgaccggct ccggaccgga aaaaaaaaaac angcggcgga   420
aggggcanca cccactgac actggtntnn attttttgtt aaaaactggg atnttgaaag   480
aatgcaaaaa cctgttntcc ttattttccc gaattttccc naaagaancc c           531

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<210> 9677

<211> 621

<212> DNA

<213> Homo sapiens

<400> 9677

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gcaaactgaa tcctgcttta attcaagctt gtggagaaca aagtcctaca gaaacattcc   60
acagaatfff ctggaaaaga nggatcacia caaccctgtt aaaaggagac tgagagtaat  120
tcatagctca ccaagttctc tccgtatcaa atttccagaa taccacaag atttcttcac   180
cagctcagtc ctgactcaac ctcttcaatc tttatttcat tagaagacia agggtcatat   240
tatttaaaat tattctagtc tcaagaaatt taaagacttg aagtagtaga gcattcaaaa   300
attagatcaa ttt

```

特平 1 1 - 2 4 8 0 3 6

gaaatagact gaatcactct agacataatt tcattagggc tgcaaaccac ccagggggag 420
 agtancacaa ttataccatt ttgttatcen cattccccag aaatttgcta ccccaatnaa 480
 naaaactttg tngcentana cacttatatt tttaaatac ccccccaaa atttcctgt 540

ttcccccttt gtttccttt ccccttnaa attnccccnt gaattctccc ggagaatgga 600
 aaanccnntt tttccctngg g 621

<210> 9678

<211> 604

<212> DNA

<213> Homo sapiens

<400> 9678

agactgagtt tcgtcttgt tgtccagtct gtagtgcaat ggcgcaatct tggctcaccg 60
 caacctccgc ctccagggtt caagcaattt tcctgcctct gcctcctgan tagctgggat 120
 tacaggcatg agccaccata cccagctaatt ttgtatatt tagtaaanat ggagtttctc 180
 catgttggtc aggctgggtc tgaactccca acctcaggtg atccacctgc ttcggcctcc 240
 caaanantg ggaatatagg cgtgagccac cagcctggc ccaaactgan tttttttaaa 300
 ggttttctgt gaatcataaa ttctactgaa gccctatggt gtataaatta ttttcaatct 360
 ctcttttctt catttatatt ttcatatagt ccctattcat aacacaatga tggctcaaac 420

特平 1 1 - 2 4 8 0 3 6

<400> 9679

| | |
|---|-----|
| gcggtttcca aacttttgta ttttagcag cagaagccat cctccaaaca aaaccgtatg | 60 |
| caaaacctca gctacaaaac agatcagtgg gctgcttgcc cgtgtggggc atgggctggg | 120 |
| ccccganc tc cctccagc acccantact tcttccaaa ggcctatgt nancctagtt | 180 |
| taaaacccca gggccttggc aggggtcagg tgggcgggaa caaggggtgg acctgtanc | 240 |
| actggagcta aancanccan ataaggtggg ctanttctta anacctctgg anggtgtggc | 300 |
| ta | 302 |

<210> 9680

<211> 554

<212> DNA

<213> Homo sapiens

<400> 9680

| | |
|--|-----|
| caaacatcct gcaaccttta atatatatca tgttgtgtga gttttaacac atttgggctt | 60 |
| gcatttgttc tacaatgtgt aatatgaaa gtttatcagc acaactagac tgaattattc | 120 |
| ctcacataaa tccttgggat gtgttacagt ttgatccctt ggtaaatagc ttcaacatgc | 180 |
| acaaaatata caaagatgtt tacacatfff gatgtctagt gagttgtgag acctaaatga | 240 |
| agcctctgcc acacagtttag gtgtatatga tttctcttta gcatggactc tgatgtcaat | 300 |
| gaatgcttga acttgtgatg aagggtttgc tgtacttgta aggattctct caanaaatga | 360 |
| aattctctga tgctgtgtag gagtgaattg tgactgaaaa ccttgccaca tttattatac | 420 |
| ttgtatggtt ccctctgaat ataaattcct tgaatgaacc ccaggggaat taaactttga | 480 |
| actgaaaaac ctggcnatt aatttctttt aaaaggntcc ccctaantg gaaaaatnaa | 540 |
| attcnaaaa aggt | 554 |

<210> 9681

<400> 9681

| | |
|---|-----|
| cttccatgga agttttgtga gaactctcca ctaccattgc caagggctga gtcaggatca | 60 |
| tttttcagtg tatttattat atcagtagat acaaaaggaa tatcttgtga cttcggagaa | 120 |
| atattttcag cttcaacttt aggcacttca ctcagttctt ccttttcate tatctcttca | 180 |
| aggctataat cagagcttat tccaaatgtc aatgatgita tggctgcctc aggtgtccca | 240 |
| gggcactcaa anacagaggt ttcctccate agtttgggcg cagtgcactg ctcctgactg | 300 |
| gaaancccan ggtgaaaggt ttcacttaaa natgaaanat tcaaaantgt tccncctaaa | 360 |
| tgtttcctgg gctggatanc tcctcaggaa aatttgcttc t | 401 |

<210> 9682

<211> 563

<212> DNA

<213> Homo sapiens

<400> 9682

| | |
|---|-----|
| gtcatttcac cttttaaagg aaaataaatc aagtangtag gtaaaaatta ctgaactaaa | 60 |
| gagatactaa agatcagaag actggccaat tgagaaaatc aagtttcatg attaagagtg | 120 |
| actcaggaag gatgtcttag ttatgagggg ggcggtggaa gacagtttat atctttgggt | 180 |
| atztatggca ggtcagaatt aaagatttaa ctttttcctt tactctttac ataaaaagct | 240 |
| ggtttatctg aaaaaagtat caatctanac ttggcaataa agtggcactt aggcactata | 300 |
| ttattgatat ctacaatgac ctcctggatg cacaaaaaac cctgaagggc ttttttgatc | 360 |
| agcaaaacaa aaacagaaaa gcnaaaaaca gttaattttt gttttgtca attttactca | 420 |
| ccanaccctt tgataccaac aatgctggaa aacatttggc aaaaacaggg ccncaatgcc | 480 |
| aantnccttg gaaaggtaaa ctcctataat cttnccggat nggcaanttg ntggggtttt | 540 |
| ttgggtattc ctttgaaaat ttt | 563 |

<210> 9683

特平 1 1 - 2 4 8 0 3 6

<212> DNA

<213> Homo sapiens

<400> 9683

acttccacca aaggcatgtg gcatatttac caatgtcatg tattctgaac aaaggcaaaa 60
aatacaaatt cctaccatta aactggcttg gttgttgttt gggttggaat aactgtgggg 120
gcttggggaa aggtgtcgtt tctttctant antctcatgt cgctttangt cagctgggct 180
ggcttacacn cgctgtgcgg tcttcatgga natgggaact ctgtgtgtca gcacaggaaa 240
gtggtctccc ancgttcaac ctgaaacacc caantcctgt aggtgcttgc cgtctctgaa 300
acccangaa catcantga agaangaaaa aactgctggc aaaaatgact cccaaggctg 360
ttctccnctc tgggtgggaca acctgggtgc tggecccaan gggctcctcc aaaaaaatnt 420
tttttacctg ncagggtgta ntngcacctg caaaaccaag ttctnccgtn aaaaaagaa 479

<210> 9684

<211> 613

<212> DNA

<213> Homo sapiens

<400> 9684

ttnaggaaaa naa

613

<210> 9685

<211> 577

<212> DNA

<213> Homo sapiens

<400> 9685

agtgaaaaca aatttaatat catcttggtt gaacaaagct ttcagaataa gtgagcaatt 60
 aaattcttaa agtanggaca gaacaccaac aggntctana ctccggaaga attgtaagcc 120
 gacaaatggg cattgttttg cttacagtt ttagcttcaa tgtaaataa tattattact 180
 tagaatatta gcatctgaac tatataatga ctattttatc attttacttg aattaaaacc 240
 agaatttctg gaacttccaa atagtcttta aagtttttca atataaacat aaactaacc 300
 ctattcctct ctacatatca aatgtgaaat aactgtcaca atatatcagc attttcacag 360
 aaagatgttt aaggcttctg gcacataaaa tgtgtaattt ctgtgtgaca atgtcataat 420
 tatatacaga aaatatttaa aattctggta gaatttaagt tctnaagatt aaaaaaacca 480
 gaattcccng ttataaaat attaaatcta tgaaccccc tnaaantgaa agnaattgtt 540
 ttccttaana aaccagggg ggttttcccc ccantnt 577

特平 1 1 - 2 4 8 0 3 6

atatacatca ggttgtaaaa ttccagcctt tatttatgtg ctggaaagta tcttttttac 300
 atatcttttt ttagtgata aactcttggtg attcccacag aaaaaggaaa tgttcttaaa 360
 ttcagatctg cacaaatcat ctacccatga aattcattta cacagttaat atgacccctg 420

aactggaaag gtgaccanac tantcacaaa ctggtccact ccttgggaaa tttggccctt 480
 tgaaccccaa attgtccaac tccccattgg atttttttan cccaattaaa ncctaaaaag 540
 gaaattttcc ccccnntcc tttcctcccn gttcccnccc c 581

<210> 9687

<211> 409

<212> DNA

<213> Homo sapiens

<400> 9687

cagcactccc agttgggtgt tttattattt atttacttga caggtaacat cgatttggtc 60
 ctacaagaca ccatgctata ggcttagcta ctgctgttg cacaagagaa ctttcctgaa 120
 ctctcaggaa gcccttgcag ggcctatcga ggacagctca gtcactgaag ggaaaaattc 180
 cataccaaag aanagagaaa aattccatac caaagaacag acttccccca ggggaacctc 240
 cgtcctacag cccctcaggg ccatcacact cacacacntc agccatcntc aaaatattgg 300
 ccatgctggg aaaaacagga ncctgaacta aaagggtggc ttcaaaccat ggcntccgat 360
 ttatttttnt tncaaataaa tnanttaaaa angtctacat gaataaaaa 409

<210> 9688

<211> 523

<212> DNA

<213> Homo sapiens

<400> 9688

cacaacatac atccttaca aaaaagtcaa aatgcaaact taaaacttta aacaaaagta 180
 ttactaattt aaaaaagtt tgtgttgggt accattcgta caacacagtt aatttaaaca 240
 ttctcatttt ggttgacat gaaaaaggcg gcagtagaaa ataaagtcac tgagggtttt 300

taaatagcag aatangcagt cttgccatgc aggagaagca atattaaata ttagtttcaa 360
 aaaaaatcca catttaaaaa tatttagttc aagtcacaga attttctcag tanaaacccc 420
 aatgcaatgc ataattanct ggcttaaatg gcccgtttga aaaggatana tccctncaaa 480
 atgtacttta ctgatttngg ccnnaaaaaa aatcttnnaa cct 523

<210> 9689

<211> 505

<212> DNA

<213> Homo sapiens

<400> 9689

gacgcggggg agagatttaa ttacatagc agccacttgg ggtccagtca gagctggggc 60
 agtgggggaa tctataaccc canagggtac ccccanacc cccacccccg ggagaccagt 120
 cctcaccaac ccttgatgg gtcaccaagg ttgtgcanaa aatgctccag tcaaaaggat 180
 ananacattt gggaataagg ctgtcccaa gttgggggaa ntccacggcc tggantgggtg 240
 gcctacatgg tggcccangg gtctganaaa ccaatccatg tcctgggcga ntcctcacct 300
 ggtgggccta aaagaaaccc tncgcggcgg aaactttccc tagnaagaang gcncggtact 360
 ggtcaaatec tccttccac gggtnaagcc gcctccttcg cacaccaca actcccggca 420
 caccancctg ataaaacnct catcctggga caccaaaatc nccccccct naaatnttn 480
 aaggcccgnc caaaaccca tggtc 505

<210> 9690

<211> 624

<212> DNA

<213> Homo sapiens

<400> 9690

| | |
|--|-----|
| gaatatattc ctccctttta tttatagaag agtatacaga aattcatttg gacagaagga | 60 |
| gcctctctat gtaacaggca cccttctgct actgggcaca atcaatcaat ggtccagacg | 120 |
| <hr/> | |
| gcaattatga ttttccacat tcctcaaagc tgctctctcc tgaaatcact ttgcaaattt | 180 |
| tggtgacc aa tttgcaaaca aaaganaatg cagtggccta cccaacctan aaatctgttc | 240 |
| tgccataattc ccttaaaaaac accattgaga atgcaaaaata agtccctttt ttgttttttg | 300 |
| cagaagcact acaagaaagc gtgtctaaaa ccacagaact atgcacacac aaacacagac | 360 |
| acgcgtgctc gcacacacag agtcgggatc aaagaatctt atctgataca tanttggggg | 420 |
| agcacgggaa aaagctggca agaaaaggat atggagagat ctgatcagct aaagatgttg | 480 |
| gaatgttaca ntatggcatg gaaattggtt cttgggctat acaaaaaagg gggtgggcag | 540 |
| gcaaaaaaaaa taataantcc cggtcncata aaaaaagttc agtggccctc ctnatttaaa | 600 |
| nanattaaan gccntttcct ggat | 624 |

<210> 9691

<211> 376

<212> DNA

<213> Homo sapiens

<400> 9691

| | |
|--|-----|
| aagtcagagt tgccctttat ttttagattc ttaaattattc tanaatgagg taaaacgagc | 60 |
| ctgccagtac aaagtgaaaa ttctacatgg tgcattcttg gcgcttcatt catgattatt | 120 |
| tcaatgaacc tcttcttggt cactcttaan atagatctga gtttttgact cgccagtcaa | 180 |
| gggctttggc gacactcaat gacataatat tcttggaata agcagtagca tttctgactt | 240 |
| ttcatattca gctcggaggt gtattgtctc gggctcctgt gcagtcnanc gccacggctg | 300 |
| ctcatcggtat gatccaggat ggggtccttg gcaattttcg ggttctcggg tccaagnatg | 360 |
| gccannccgt ntnttg | 376 |

<212> DNA

<213> Homo sapiens

<400> 9692

```

aatggtcaa actagaacca ggatttaatg tgaaaaatta aactgattct ttattcacia 60
atttataata ccactctact gcagtctttg actccaagat attttaaatc atatttggtc 120
gctgangaan anataagtta tagtatgcat ccttggtcca aaaatctggg cccttccatc 180
cgcaccagcc cttttccaaa ataacttgca ggtcttcagc accggtataa tgtggatcta 240
gaatcagaaa ctttatctgc cctgtaatct cattccatgc aactcctagt attgtgtggg 300
ccaaaactcc tccccgatac ataactggag ttccttccat ttggaaatga ttagccagtt 360
cccgtccttg agaggcaatt tctgaacctt ggctgacaaa caggattttt gacgttatac 420
cgatcaattg gtttagtncc agctgccctc aataaattca atccattggc gcgatccgac 480
aatttngttg gttgtccccg gctccaacaa aaccgccgna attcncngtn tntttggaaa 540
ggaaccnccg t 551

```

<210> 9693

<211> 410

<212> DNA

<213> Homo sapiens

<400> 9693

```

aaaagacaaa gacaaaanaa tatatttgga aaaaaggtcn ggaacacttg cctctantgg 60
anaanggaac tgaacttgn cacagccttc cgtatttatt aggcaaaaaa aataatgtga 120
aaggaaatgg aaaaaggggt cnctgctcng tccaaaatan gcttgcaana ctgcattctc 180
tggatgtccc aatanataac ctcaaggagc ttggcgtcng gaancaattg ccctcagcaa 240
accttctggg gcaggcacag tcatganttt gccacattc tgtattcatg ataaacagtt 300

```

<210> 9694

<211> 553

<212> DNA

<213> Homo sapiens

<400> 9694

```

ggtttcaact gccagcttta ccaatgcagc atttatttta aaattaaatt aaattaaaaa 60
aaaaaaaaatt gcatcaccag gtatTTTTct cnattaanga ngcacctgac caaggtgggc 120
cgtggccggg cggcaacaac atcacactgg gccatttaag gcagctcctt ctggcggggc 180
atctgtcttc centcctttg tcaactgtccc canggtggcc accatggctg gggctgctgt 240
tactgccatn atgggcccta nggggaccnc cacggccagt gcaaaaaaaaa ntgctggggt 300
nggtatggcg gggccancct tgctcaatgc tgtggtgatg gccacantaa cctcgggggg 360
cacanccacg gctggggcaa caatcacttc ctttggcccn gggcaagcaa ggcttaacaa 420
ccngctgtca acacacccga cctgccgaac gcctcctctn ttctggccac tnttggcaen 480
ggggggctcc ccgnccggga accctctcac ccatncattg gnaccttcc ttcttgttcc 540
caccctt tng 553
    
```

<210> 9695

<211> 424

anatggattt atgtcataag anctgccttt gtaataaaan tggaataagg tnnngctacca 420
aana 424

<210> 9696

<211> 576

<212> DNA

<213> Homo sapiens

<400> 9696

aaactttaaa aattatttta ttatctctgg gtgacatttt catttatagt ggcatttata 60
tatacacata catataggag gtgaatgtga gatataattcc ttagggcttt tgataaaacc 120
catatcttta tccctagttc atttacaaga gagcagcgta acggtaactt tganattttc 180
cttttgacag taatttccat tatcatttga atgggagaaa ttcttaggac atgatttgga 240
atcatttcta gaatataaat ttcataataat cttattttat aatgagacaa aactgtgtct 300
ttgtaacaat acgtgataat ttaagcctat gttttaatgg ttattgacaa agtttaatgg 360
catccaaaat actcttatgt ctatctgaat ttttttcctg tactcttctt ttttcttaaa 420
agcatgatag acccctctgc aaatacagan cctttgttgt tgctttgctg tactttggta 480
ccttgctgtt tattccttaa tctaacacac cttagtttgg tagtatatct tacttaattg 540
ccactaaaaa aaatgctaac ctagggttta ctggga 576

<210> 9697

<211> 581

<212> DNA

<213> Homo sapiens

<400> 9697

caaatgcagc atatttttaatt ttgtttcaaa taaagcaata tatgtatata tattttttca 60
gaaaaacacc agatgttaaa ttctacaaaa gcgcatgtgt cctcagcaga tcatgtttgt 120

atcactgcta caacacaggt tgctaactga gcctctgata ttcagccaca tcttgatttt 240
cctaataatg agtaaatact gcctggctaa aatgcagcaa agtcttgatg agagaaagca 300
tcaacagatc aagcaaagcc atgaaaatta tgaagcaagc tagagctgat tattagaaat 360

tagtaaaaat gattaagaag aggatgacac aacntacgg gatttgtata ttctgattga 420
cactcttttg gcagcgaatt gggtcagcac ctccggcagg gaaccaaacc tgaatgaaaa 480
ctgctctttt tctctctanc tcaggcnacc aacgtcacac cggggactga aaaaactgct 540
gcctctgtgg aaacttctat tcncttggg gnaaaaatgc a 581

<210> 9698

<211> 570

<212> DNA

<213> Homo sapiens

<400> 9698

attgtctttt atgttaaact ttctacaaaa ggatgtataa acgggtaagt ananaatctc 60
tatctacaaa atgttttctc tttaagtat tacattactt ggtgtacatt taatagactg 120
acatatataa gcacataaaa atcattttac gtaatacgtt gcgaaatacg ttgactcttc 180
ctccgctca cccctgaagt gcctcctcct ctatcctccc catcactttc atcatcttct 240
gtctctgctg ctgtattatt tttagggttg cctcctccaa gcagtgaggt aattgctttg 300
ttccgagcat ttgtgctagc tgaaacctcc cttcttcttt cttcttcac aggggccana 360
tgttccatga naagtttgaa atctaaatac tgttttacta tactcccttt tcacctcttc 420
tgtgattttg gaattancca tgcctccgc aaggaaatcc aatgttggtt ttgatnaaa 480
atnaatcccg gttttccggt taacccttta tcatatactt ttggcaaata ccaatggaaa 540
attcttctga attttactat caaaaaatcc 570

<210> 9699

<211> 512

<212> DNA

<213> Homo sapiens

<400> 9699

| | | | | | | |
|-----------|---------------|---------------|------------|---------------|-------------|-----|
| ggnttcaa | aat aacttatt | ta tttctgcctt | aatttcgt | ta tttacccagt | agtcattcag | 60 |
| <hr/> | | | | | | |
| gagcaggt | tgcagtttcc | atgtagttgt | gcggttttga | gtaagtttct | taatcctgag | 120 |
| ttctaatt | tgcactgt | ggtctgaaan | actgttgga | ttccggttct | tttgcaattcg | 180 |
| gtgtgtag | tgttacttcc | aattatgtgg | tcaattttan | aataagtgcg | atgtgggtgct | 240 |
| gctaaaaa | tgtattctgt | tgatttgaag | tgganantt | gttaaattgc | tgcttgggtcc | 300 |
| aaagctga | nttcaagttctg | anttctgtag | gtctgcttgg | tccaaaactg | antttaagtc | 360 |
| ctgaatatt | c ttgttaattt | tctgtctcat | tgttctgtct | aatattgaca | gtggaattgc | 420 |
| aaatctcca | ttattattgt | gtganaatct | aagtctcttg | taggtcnccta | anaacttgcc | 480 |
| ttatnaat | ctt gggtgcncn | gtatnggggtg | ca | | | 512 |

<210> 9700

<211> 569

<212> DNA

<213> Homo sapiens

<400> 9700

| | | | | | | |
|------------|------------|-----------|------------|------------|------------|----|
| agctcatcat | ctattattag | tgtagcgta | ttttatgtgt | ggccgaanac | acattcttct | 60 |
|------------|------------|-----------|------------|------------|------------|----|

<210> 9701

<211> 568

<212> DNA

<213> Homo sapiens

<400> 9701

```

aaagaaactt ggattgtttt aattggttta aatgcagggt atatgtaaac aactccccag 60
aaatgagagg cacttctcgg aaatacaata acccatgtca ctagactagc aaaacactca 120
gtgcttttga cttgatgaat tgaatgagtt catgattcaa ctttctaag ttgtctactt 180
gaaaaatagc aagattctta tctgcagcat ttaatgcatt aagatgtatt agataggcat 240
atcagatata ataaaattaa aattgtgctt atgttaattc tgtaatagac ctaactttta 300
aacacctcat gttattcact aggagctatg atctagtcgt gacaatattg gttaaaatag 360
tccatctgag gcagaaagtn aacaagcaaa gtcacttttg caggcttttt aaactgtata 420
acacatgaaa ttatgactat tccccagatt atgcaaccag ctcaattta aaaagctggg 480
aacaatatatt atgaagggtt actccccatt ccttcctttn cctttntntt tgaaacngaa 540
tttccccctg ttgccagnc gggattgc 568

```

<210> 9702

<211> 562

<212> DNA

<213> H

aaaaattatc taaattcata aaagtatttc ataaatttca acatttaatt attatgtaca 420
 tataaggga gtcacgaaa aaagttaaaa naaaatgttt tcataaagtt caaagccaca 480
 ttaccaattt tagcaaaaaa tcccacaaa tcaaggggga aggnatccaa acnttccaaa 540

atcttatctg cngccaaann tt 562

<210> 9703

<211> 570

<212> DNA

<213> Homo sapiens

<400> 9703

gttggtcatt tgaagcaatt tttctttttt attattatac ttttaagtttt aggggtacatg 60
 tgcacagtgt gcaggtagt tacatatgta tacatgtgcc atgctgggtgc gctgcaccca 120
 ctaactcgtc atctancatt aggtatatct cccaatgcta tccctcccc tccccccacc 180
 ccacaacagt ccccanagtg tgatgttccc cticctgtgt ccatgtgttc tcattgttca 240
 gttcccacct atgaatgana atatgcggtg ttgggttttt tgttcttgcg atagtttact 300
 ganaatgatg atttccaatt tcatccatgt cctacaaag gacatgaact catcgttttt 360
 tatggctgca tantattcca tgggtgtatg gtgccacatt ttcttaatcc aatctgtcat 420
 tgttgacat ttgggttggt tccaaatctt tgctattgtg aaaaatgccg caataaacat 480
 acacntncgt ttntctttat ancancatna attaaaatcc ctgggggttt ataccatta 540
 atgggaaagc tgggtcnaat ggtattccca 570

<210> 9704

<211> 543

<212> DNA

<213> Homo sapiens

<400> 9704

| | |
|--|-----|
| aatggttgag atggtaaaat ttatgttcta tgtatittac cacaataaaa tgaaattgat | 120 |
| agggaaaaga tgaggcaagt acatttghta ggaaaacaga aagcttggac caattcttat | 180 |
| atataaagca agtaatatatt catgtataat cttaatctca gatggtaggt aaagaccact | 240 |
| <hr/> | |
| gtaaaactaa ccagtaccct tgagtgtcac aggcacattt catttccaaa gcttatgaga | 300 |
| ttgtaagtaa ccagaaccac ttgacaagat acctgaataa atgaagcgaa ggatgtctga | 360 |
| taaacaagaa cagaagaggg cgtctttaac aatgactcgt aatggtgggt tgcctgaaga | 420 |
| ttcntggcta gcacctggaa atgcnnatc tctgtttata nccaaaanat tctggggttt | 480 |
| ttcccgaana aaccggaatc cngaatttct tggaacccc cnttgaaaac cccttnaaac | 540 |
| ctg | 543 |

<210> 9705

<211> 574

<212> DNA

<213> Homo sapiens

<400> 9705

| | |
|---|-----|
| acaaacaaga ctagcttata gcaaattctc tatagctaag ggtcaattta aaatccttgg | 60 |
| cttatatctc cccctcactc aatgactaca tgatgcaaac taattttatt aacaccttaa | 120 |
| gcaaaacata ctggaatttc acaaaatgtc caagatttca atatttaagg aactgggggt | 180 |
| aggaagcaaa agtggtcttc aggtcttcca gtctttctct caagtaataa agctctgctg | 240 |
| tgaatattca aagctattgg gaaattaccg gtagattttt ctgttttttt tttttcggtt | 300 |
| ttccactatg ttgtttctct anatatgtaa gcttactcta ttaacaaaa tctcagcttg | 360 |
| accattcttg ataagtacct aatcgacatg tnactttttt tctgccttaa atatgtataa | 420 |
| canggacana acccttaaatt ctgatcaatt attaattcct gatttacaan ttctatgggtg | 480 |
| anctaacaa acttatccat caattttttt caattttcta aacccatttt aaaaa t | 540 |

<212> DNA

<213> Homo sapiens

<400> 9706

```

gtttttaaac agctttactg aggtataatt gacatatcat aacattcacc tattttaagt   60
gtacagttta attattttta gtaaaatfff agacttgfff gaccatcatc acaatcttgt  120
tttggaaacat ttctataatt cctaanaaat ccctcatgct catcaatacc accccttatt  180
cccactcccc agctccagac aaccctaata tgacttactg acactacaga ttgtcttttt  240
ctggatatca taaaaataga gtcatacaac atgtggtttt ttgtatctgt cttctttcac  300
ttagattaat gtgcttttgt gggtcacctg tgttgtagca cgtatcaata ttttattttt  360
ttaggtgcta gattctatta aattgtatgg atcactccca ttgttttatt ctttcatcag  420
ctgatanata ttgangtgt ttctacttta tggactatta tggataaagc tgctactaat  480
attcccatc cagtnttgtg tgganatagg ttttttncct ttggaatnaa caccaggaat  540
gaaattgccca ggttatacgg taa                                           563
    
```

<210> 9707

<211> 522

<212> DNA

<213> Homo sapiens

<400> 9707

```

caaatatfita attggaagga actacatctg gaataagfff taaaggaatc catataaaaa   60
gaaaagcaaa tccattagaa attgatataa acagttgatt ttatctggaa ccaagaatgt  120
gaatgaattg gaacctanat gtcctaacct gtttctttgc ataaaagcca gttgaatttt  180
gaaatttata tggcaattat actttattac ttacataga gctttgtttt tagctaatat  240
tttagagaca gattacccaa aattacctaa ttgggtccc acttcattcc ttctcaaaaa  300
ccaaacataa aacanaaggg ggccagctgt ggtggctcat gcctgtaatc ccaccacttt  360
gggaagccna agaagggtgg atcactaggt caggattttg anaccaccct gaccaacatg  420
gtgaaacccc gtctctacta aaaatacnaa aatccccag ntntggtggc cctgcctgtt  480
    
```

atccccaaat acttaggang ctnangcngg aaaatccctt ga

522

<210> 9708

<211> 512

<212> DNA

<213> Homo sapiens

<400> 9708

acaacaaaac ttacatggt ttattatac attactgtta ttgaaagcaa actttataca 60

aaaagtttta tacagataaa aaaaatcctt ggctaggcaa agccgtttat gtgtgtgcat 120

atacagaaac acacatacat acatatacac acggtatfff acatcataat tatacatatt 180

tataaatata ttattttaat tattttacaa tatacaciaa caaggaggca attataaaag 240

caaataaaaa atggatgaac aattgaacta aatagtcact aagtttaaaa tgctacaaaa 300

ctatffffff aatctagaaa gtcatttctt taaaatatca aaactaagat ttcaatacat 360

cactgttgct ttcattttgg taagttctaa catgttttaa aataaatatt ttgacacaaa 420

acagataagc naatcagaat gatgactagc ncaagctgaa catgctgatg tnaaattana 480

naatccctga gtataaccaa tatanattat cn 512

<210> 9709

gctgccaat tttattcaac tacccaccca aaaaaaaaaa aaaaaatcac aaatgacagt 360
cccnacactc tgcaaatttt ggagggttga natagtaaac actatttgtc ntactccnca 420
gaatttacta tttnacagaa attaattctcc nangggcctt 460

<210> 9710

<211> 435

<212> DNA

<213> Homo sapiens

<400> 9710

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ggatgataat gtgcaaggag cacggagaga aaggacaagg cagtgaacac atgcattcca 180
gtggaggggag aacgaggctg atgtgcaaca caactgagga aaatttatag attaaactat 240
tcaaaactgc taagcagcct cctgtaccac ataagtcag tanttctaag aaaatacaga 300
tatggtanaa aaagtnanaa aattttcacc acaaaaccaa tagttaacta ctaacnnaga 360
aagttatnca caaaatatat ctctcaatac agtgatcaca cctcatctta ntcaaccgac 420
tcnatggccg gancn 435

<210> 9711

<211> 392

<212> DNA

<213> Homo sapiens

<400> 9711

agagacagtg aaagatttta tttttttttt tactttcatc caaacacacc cttttctaaa 60
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aatcagtaa taatacaaac aaaagtttaa atgatatgtg aaaagactta caggtaggta 180
tacgntctt aattttagaa aataactcaa gtcagtatca atacaggta aggagaagct 240

tctaattttc cnaacatttt gatacaaaat ttttttcaac gactgtnttt tatanacctt 300
 ttgtganaaa attagtatag ttctatgaaa cctaacattc nantgatctt atgcnggtca 360
 ggntaccttg tttaaatgag ttagaaccnc at 392

<210> 9712

<211> 516

<212> DNA

<213> Homo sapiens

<400> 9712

gcattcttaag acaaattttc ttttatttct gttaaactga atatacaatt gttccctagg 60
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 caactttgtg aagatctaata tacaataata aataaaataa tttatacaag gggttttttt 180
 tcttgacttt tctatagggg tcatattcat taaaaagccc aaaaggntac ctttgcctta 240
 acccttctgt agtacaggaa tgattcttan atttgtttcc ttttggtata aancaaata 300
 ttgttttttt aaaatancct gaaatnaaag gttatatgtt accccaccag ctaacacact 360
 aantggatna caaactattc tctcggtaat ttatatnca aaacatctaa taaatgggtca 420
 tggtatcaag gnataggtaa cattacttcc nccncattta nttttacttc aaagtgctaa 480
 ctttggttaa ctaatganan tggttcctga nggggt 516

<210> 9713

<211> 466

<212> DNA

<213> Homo sapiens

<400> 9713

特平 1 1 - 2 4 8 0 3 6

ggggttacac aggctgctga taccagtcta nanagggcac ccaccagcca aggctgtgtt 240
ctaacttagg tgtcatacca tcggccanaa aaaccatgtn tccataaagg ctgtgaanct 300
aactanttta tctgtaattt ggtcctantt gcttcctta ttttatgtcg tttttttttt 360

tccttaaata aatctgttca aataacctcc ttatnaatcc tcccaaata atgttcttna 420
nagaaaacan tcaanctaaa cancaatgat nacttttatg gttaaa 466

<210> 9714

<211> 570

<212> DNA

<213> Homo sapiens

<400> 9714

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ttttcaaac gaatcaacaa caaaaagta tccagtgttt cttttcttat gaagattatt 180
aataaaacgc agtattggta agcacatttt aacagtatgc ttttcttttg tagggaaagg 240
agatatggct atgtctaaca tcgtgggatc caatgtgttt gatatgttgt gccttggtat 300
tccatggttt attaaaactg catttataaa tggatcagct cctgcagaag taaacagcag 360
anggactaac ttacataacc atctctctca acatttcaat tatttttctt tttttagcag 420

cacaagggat aaatagaact ttattttaaa taaacatttg cactctgtac acagccccag 60
canaagcagg gctcagtcgt cagctgtctt gcgcacatca aagctgccac aggttcctcg 120
cagcagctct gccagtagcg caagcagctg cccgtgctcc tctgtacgc tggggggaag 180

tgcanccagc tcgctgcgca ggctccgctc caccatgcgg cccaggggccc gccgcagctc 240
cttcagcagc cgcacgggtac gcgagtcacc ctccagccgc agcaggtcac tgcgctcan 300
tgagatggtg gcccggcgcc cgtcatcacg gatgtgcacg tccccgtcgg tcagcagcag 360
cacagctagc ggggtgcacct gaagaagagt cccggacgaa anacgtgcc attggacttg 420
actgccatga aatacgtcag ccatcggtc cgtaaccgtg ttgtaancgg ttcgttgttc 480
ctgtccacca ggcccaagct cttcattttc ttgcaggcca aggttcncc ttattctcac 540
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<210> 9716

<211> 584

<212> DNA

<213> Homo sapiens

<400> 9716

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attaattttg aaaatttaca atttaacaac atgatacctat caataacaag cacattttgt 180
agtgaattaa agacacattc aaccatgcaa tccagtgttc aataccttaa tgataaataa 240
caatgctgat tgacttttat ttgaaaaat cattgaaaac tggaataatc atctgagact 300
cacagtgatc acaaacatgc agaaaaaagc atacaattct attcttcctg aaggaaatgtt 360
acaaaatgcc cactttttta tatagggtca atatgccaaa ttacttatat ttttcaatcc 420
atcatcttct aacatttgct acttaaattt ttcttaaagt acaaatgttc ctgttaagtt 480
gtnacagaaa atgaaacccc actccttcng tctttaaaaa ctccgtccca gtccccccct 540
aatanccgcc ttaattaaa atatgactcc ccgtggaaaa atnn 584

<211> 562

<212> DNA

<213> Homo sapiens

<400> 9717

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cattctaagg nactgttctg gtttgaatgc aattccgcaa ganagaaaag agaagccatt 120
acattctgta tttttcatct ctacattcag actcctccta tattatatgt ttattgctac 180
tgggatatca atttgagccc canacttata gcagcatcat atgttgacct ggatgacaag 240
aattaaagat acatcctggg tctagcaatt ggtataattg gcacttaatt acaaactctc 300
ttgcattatt ctccacctgt ttcccaactc ttgtttaact aaaaatatta taaaatcttt 360
atgagcctga tccatgaatt atatttcttt actagcttcc actaagccta naacaggact 420
agttaggcac atagtaaata ccccccaaag tatttatatc actctcgana acttcaatgg 480
aataaagact atacttttcc taattgtant tcnaggaaag gatgactgaa cntcttccn 540
aangaaaat ncctgaattt tt 562

<210> 9718

<211> 575

<212> DNA

agcagaaaac caacattggc ngacaaagct ttctcagtaa gaacatttga tgtgttcctt 480
cctggctctcc ttggnatcc tctctaacat ccaccatccc cctccntca anaaacaaca 540
agaaattttt nattttcncc ctcccattcg cagtt 575

<210> 9719

<211> 540

<212> DNA

<213> Homo sapiens

<400> 9719

ctatttattt atcttattta ttatccgtct ctcccagcta ggatgtnagc ctctgtaaag 60
tggangaagg gggcttattt ctgaatctcc aaatctanaa tggtaacctgc cacacaaata 120
tgtgctccat aaacaaatgc actttttctt ttctgcactc cctgggttgc aggctgcatg 180
cnaagcacgt cctcaanggc cagggatctg tctcaagcct tttgaaaac caccctttc 240
ctacgtgccc cacaccagc tctagcaggg tgccctcctg cccctgagcc tgccctcatc 300
atgcccattg ccnaagcctc angactgaat cacatttttg gaatcttccc aaggataacc 360
aatnngcatc attattctac agcgatgctc atgtataatt atgattatta tcctatatga 420
acnatccatt gctgctgtgt aattccaatg ggtaattact ggcctctgaa gattgaactg 480
ggcttggann gtntttcncc gttttctctg aaactgcccn ctggaacaca ancaggttng 540

<210> 9720

<211> 567

<212> DNA

<213> Homo sapiens

<400> 9720

acatttaca atattaaatt tattataact aaaatgaatt taattgttct canatttggc 60
acatttata ctaa tttta ggggggatt ttttaaaac aaaaatgcat tataacttgg 120

特平 11-248036

ttcagtttca cataattaa agaacaggag aaagcacgca agctacatat agctaaattt 240
 acgaaaccaa ccaaagccag ggggatttct ctcttgatta tgtgtcataa aaaggtccac 300
 tgtcttatat acacatgtat ataatgttac attccatcac tgtaaaaagt cccctttgcc 360

ccctcccca aaaaagtttc agtctagtct ccaaacttgg aangcggcgc tcgtcctgc 420
 tgccggtgca attcgttctc ggtcancaac tggaagtct cggcgcgcac cggtaactc 480
 caactccact cccgcaaaag nccgttttcc cacccaacng ntgtctcaa ccgaancng 540
 tnttctctc cccctgcca aaaggnc 567

<210> 9721

<211> 578

<212> DNA

<213> Homo sapiens

<400> 9721

acgtttcatt atagttttta atttgtatac ttttgttta ctcataaggc agaacacgat 60
 tttaaata aacacacata cataaacata catatgtaca cattttgatt actcatgagg 120
 caaaacatgt tcatatatat ttgtgtgtgt gtatttttnc ccatttgttt tggcatttcc 180
 cttaaacagg atgttaaaag ataaagaaat agatttagtc tatttttctg ctanananag 240

ttatt tta atttcaaat gcccttctcc tctttgtaag tataagaaat 300

特平 1 1 - 2 4 8 0 3 6

<400> 9722

| | | | |
|-----------------------|------------------------|-----------------------|-----|
| aagaatttgt accagtaa | ttattccaag taagacttgt | gtgcacacac caggcagata | 60 |
| <hr/> | | | |
| attccacac aaacacaaa | cattgtagta aaactagtta | acactttggc catgaaactc | 120 |
| aaagatactt gaaaaacctc | tcgatagcac tttgagtcac | ttaattctga caaatattaa | 180 |
| tatgtcatcc atgcttgccc | agttataatt ttacaatata | attgtatfff tcattgtact | 240 |
| tattattcat tatacttact | atatatatfff aaaacatcft | tgctgaaatt ctcttatccc | 300 |
| aaaaataatt tttcagtaac | tccaaaatac ccacatgtac | ctcttagcag gctattccaa | 360 |
| tatcaaaatt ctttttcttc | aagtaacaag ttctcaatcc | acaccattcc tgatcacaga | 420 |
| tataactgat atgcagttff | ataaacagct ctttacncct | ggtnccaatt ttagcngggc | 480 |
| aaccancctt ccctgatata | ccaaatttnc ttggcacana | atcntccata gctttggg | 538 |

<210> 9723

<211> 569

<212> DNA

<213> Homo sapiens

<400> 9723

gcctgttgta naatattgtt tatttctggg cataaattgt tgaatgatgc aaaacaaatt 60

<210> 9724

<211> 566

<212> DNA

<213> Homo sapiens

<400> 9724

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gtggaatgtc atttctcttt atagaattat aggcaanatt tctccaataa aacttaactt 60
aagccagtta taaaactata acttcacatc aaaattttaa aaagttaaaa aatgtgtttg 120
aatatgtaca tatcacacag aagtgggtga atgttcttgc anattgtgtt gctggtcana 180
ntccagtcta ctttccactt taaaactgg aataggctga gtcttctgat cttgctgtan 240
attaagttct gatgcaggtg ggaaanatga tgangcagtt gttaacagct gaatctctgt 300
gcatgcttct tcanattcag tttttatcct cacacattgg gagtcaactt ctaattctcg 360
ctttccagtt aaaccacagt ccatgttana attgctttct gtgttttgag tggcttccac 420
aacanggtgg tncgttttaa gccttatatg ccangctaaa ctgcaccgc cnaaactgtt 480
ttgaactgat gaatgacttt ctaggganga aattaaatat cattgtcccc aactgaaatc 540
ncacntaaca aatgcctccc ccnct 566

```

<210> 9725

<211> 535

<212> DNA

<213> Homo sapiens

<400> 9725

```

gctgcaagtg tttattctat ttagaagtct acaaatttga gcttttaaga aagattcaca 60
aaatattcat tcaaaaccac atttttggct tatcaaattt caaatatatt ttactgtgct 120
gaacaatata ttctaagtct gtctaaaaca cagctaaatt atttttcttt atttgtttat 180
acacattcgg taatttctga aaagcaagat ttaaaaatat ttattaacaa actaccaat 240

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特平 1 1 - 2 4 8 0 3 6

tagggagtgc tcattctcca tttctcatca attcaaacag caacaccttt cacaanataa 420
 cattaattcc cttggcangg caaaaaactt aagtttggtt aaaaagcact cncatgaaaaa 480
 catttttaaa tttataggtc ctnttaaatn ttttcnnga aaacgnatga ctccc 535

<210> 9726

<211> 556

<212> DNA

<213> Homo sapiens

④ <400> 9726

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 gtgctctgta gtgttgtana aatcggattt tgaaattatc agtacaaaaa taacagcttg 120
 attaaaatta atttgtatct gataattgtt tacaagttat gaaattcagt gatgatttac 180
 aaaatccaaa cagacaatgg atacctaag ccactgagct gtaaaacaaa agttatgctg 240
 acatctagt gtaacataca aaaaatctat gctttacca attttgatga tatcatttct 300
 cttcacaat ttcactcctt tgttgatata ctttcctgaa ctcttcacca agcagatcaa 360
 tatcctctc ttttttaaat actccttag ggagatacct antaagtttg tacatgctct 420
 ttaagaaatt ttagcccttc ctctccata attgcattaa taaatccctg gcgcctttgc 480
 tgcactgcca ctctccaat tencttnttt gtctncaagg aatntttggn gaaacnctc 540

| | |
|---|-----|
| ttaaaatcaa tggacttttg ataattcatt ctgtggtgtt ctcagtacaa atggtacaca | 180 |
| cctgatttga aacatacaga aaaagtgtna actaccgcaa tctgaattgc aagtattaat | 240 |
| ttcatggcac tccaacgact atgaaatttc tttcacccaa catgtnaata cttgttacia | 300 |
| aattctataa gaatttttca taatctctgg atgtagagtt tggatcactt ttcagaaaca | 360 |
| gcaactacac acttcgccat gttatgactg attaataaaa agaattgttn taaaaaccn | 420 |
| tccttacngg attaaaaaag tttttaaga aancntatit gtgantggca atgttncccc | 480 |
| ccttttgaaa ttttaaattt ttttcggaac cngggtttgt tccctattaa aatttccaaa | 540 |
| aaaccgtccn atggnggggg tgggtggtcc ctttggnaat tnaaaacccc ctttagnn | 598 |

<210> 9728

<211> 381

<212> DNA

<213> Homo sapiens

<400> 9728

| | |
|---|-----|
| cccacctatg ccctttccag ggcagtttaa ttggtatcat ttgtaaaagg tcttttccat | 60 |
| cacccccaaa gcctttgcat tccctttcca anaagggtggc tgtttactgg ttttggcccc | 120 |
| atgtgcaaca gtaggccttg gtatgatgct gccataacac tcccatgtga cactccaggt | 180 |
| gacatccaag tgcaagtcta tgttcagctc tggacancan gggggaaggt gaggaaantc | 240 |
| angtctgtaa attgaantcg ggcaggggccc tgnctggctg gaaatgtgtg ggcaagggtga | 300 |
| gcangcccca tgtgcacccc anctccattg cccactgatt tggctnaacc ccantttggt | 360 |
| tntggtcaaa ttaaangtcn t | 381 |

<210> 9729

<211> 551

<212> DNA

<213> Homo sapiens

anaagcactg tttccctttt tatttaaagt actggatctt gtgttctgag gaccacttat 60
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 tgaactagag cacaagccat tttcaacagt cttcagtagt aagtcattcg ttggaaaaac 180

aggcaagctg ctacattcct caatggagga agttttggag tttgacgtcc tattctggtt 240
 ggtcagcaag gtgtttggat ggcatacagt gtgcaacagg ggtggtacag ttggacttgg 300
 catcaccgtt gcattttactt gtgatgcac agaaacacaa cctgttgaaa catgaaaaaa 360
 gcatttcggc accctcaaat gtncctggga atgccaccat tttccaaanc ctgtttaata 420
 atttcctac cttcttgact gacactggtt ttaaatttag tcccccaaa tcaagaaat 480
 ttttttggtt aaaatgctgg cnaccaattt cnccaaaaaa cntttaaaat nanggatntt 540
 taaaacctcc t 551

<210> 9730

<211> 366

<212> DNA

<213> Homo sapiens

<400> 9730

gttttaccat taacatttat tgatgggatg gataaatata gattgagaaa catacttgac 60
 agcaagatat caaactgata gccagactat aaaatgtata catccttttt aaattttttg 120
 aattttttta caaagagccc ttactataat ggtcacttac ctctatcat tcacataaca 180
 gcagtagata tcccaggggt agcatccaga gctgaggtgc cccaaggaag acagaggcaa 240
 tggcagaata atatgctgag aaaggactct taagaagcaa tacnaagaga acagacnaaa 300
 atctcncnc aaaattgtac ctgagtgaca aattggtaaa ntgttttact ttnttttttc 360
 ctttcc 366

<210> 9731

<211> 521

<212> DNA

<213> Homo sapiens

<400> 9731

| | |
|---|-----|
| aagccaaagt ataatttatt ggaaanatac agtttacata acagcanana aggntgatga | 60 |
| accagattca gaaagacaca gggaacactt tagcttctca tcttcaatgt gaataaacct | 120 |
| caatcatttt ctttgcatta tttcaaanaa ttcactaat tagcttagtt tgggtctcat | 180 |
| ccttattaaa aagttaaggg aagtagctga caatctcacc aaagctctat acaattgcan | 240 |
| atganttaat tctctaaaag ttaactgagg tgctaccact agaaaaaag aaatggaggg | 300 |
| aagacagata aaatcnagan atggtcntat tgatgaaaca gtatgtctta aattttccta | 360 |
| tgctccnaaa tagggaaatt aacagctacc ttaaattaga aataactaag tgaacagttt | 420 |
| cctenggtnc atttagtgaa gcatttgta gantcctttc tcaatttcct cccattatt | 480 |
| gttctattcc aattctcncc tcnaaaaaaaa nncactttta a | 521 |

<210> 9732

<211> 584

<212> DNA

<213> Homo sapiens

<400> 9732

| | |
|---|-----|
| cttttaaagc agaaatgtct ttattgtttg aagcatgaca aaataaaatt gataggacat | 60 |
| ttcatttctt acttagtctt ctcaatgggg ttataaaaat acaatgccac ttagtttttg | 120 |
| taagctcttg aaaatgtcca gaagctcaca ctagtatga tattaagg cacttataac | 180 |
| acacaataag atacttagaa acccatctca tagatacaat tgaaatttct ttgagaaaaa | 240 |
| tttctaaata tagaaataaa taggacggca ctatttcttc ttttccaaaa cacagaatag | 300 |
| cattttcccc atgttaccta tacacacat aaatgtggac acctctccc attttgttc | 360 |
| ttgatacagg ttgataatca agctgaaatt aatttgcttg cttttctcna ttaatctca | 420 |
| atttggttta aaataagca aaattcctaa tttgtttnc aggatcttta aaatacccgg | 480 |
| cctatttcca ttttggtttt aaatcccaat ccttaatta ggaaaataag angccnaant | 540 |
| ttaaaaattc ttctatttac tgcccaatcc cccaagcaca atnt | 584 |

特平 1 1 - 2 4 8 0 3 6

<210> 9733

<211> 434

<212> DNA

<213> Homo sapiens

<400> 9733

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tggttcccc tccccctac ccctctggga taaaatttt ccagcattgc caggagcttt 120
caggtacaca tttaaagaata aaatgaagtt aagcagctgg agtataggat agtatttgat 180
tttcaagatc acccaaagct gcactatcgt ccaaagctg accaagtaga ataaaaagaa 240
aaaaaaaaa aacaacccat gcgcaaanat anacatttgc ttgatctgct ggctcagggc 300
caaatgttta atttgcttct ccaaagtcac tcattctcaa aantctgatt ctgggaaact 360
gatgccncta ccctaaaacc ccnctgacca tnttattgtg catcagttnc cncttgcca 420
ntaagcattt atcc 434

<210> 9734

<211> 519

<212> DNA

<213> Homo sapiens

cctgctggca cactgttnac catgggccca ancaancct

519

<210> 9735

<211> 353

<212> DNA

<213> Homo sapiens

<400> 9735

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agccagggtt cctttcagtg cgaatgttgt aagaaaaacc aagatctgag tcctaggtgc 120
tactaagtct tagttacatt ttggtgcact gcgcttaaca caccattact ttataaaata 180
caaacaagag agatagtcca aataaaatct aaactcataa ttacttggtg gtaagacgac 240
tcatagcct taaactctcc tcaaataat tttactgccca gttgatagaa naacctggat 300
ccccaccca attcctaatt cctaaatitt nccccctccc cctnancnn gct 353

<210> 9736

<211> 515

<212> DNA

<213> Homo sapiens

<400> 9736

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atcaaatcaa atctaactct tttggccaca tgactggttg ttctttatct catagttaca 120
atgaatcata taaactgtag actgccacta ccacgatact tctgtgacac agaaggaatg 180
tcctatttgc ctatctatct gaggaatggt aaatagagaa aaatagatta taaaacaacc 240
tggaggtcac aggattctga nataatccct ctgttaaaaa acatctgaac agcaaatgtc 300
caatctgtaa taaaatagtt aaagggtcaa gtcaagtcca cttctacttg gctggcccag 360

tccnaaccng tganttccaa agaaaanttgc ccggg

515

<210> 9737

<211> 466

<212> DNA

<213> Homo sapiens

<400> 9737

ataaaacaat ttccatgttt accaaatgca acacatttcc ttttctatta agaanaaaaa 60
gccggttgca acccactaaa gtgatttgat ggccaaagaa taggtagcaa ttgcatTTTT 120
gaaaaatact tatttaaata gaaatttgtc agacatgtag aaaccagtca cattgtagct 180
ctggcagatt tctgcaggag atccagtgc acatttcatg gtcctagaaa tggttttcct 240
tactctttga atctttcacg gttgatgagg tgggtgttgg gatgaaggcc aagggaanan 300
agtggagaaa atggtgatgg gagganttta ggaggccaag tcttaattct gctcaggcag 360
aaaacagttg aantgtctgt gatgcattgt ccanacacga atgagacacn naccctggtc 420
tatggcggct tataatccaa ggtgttgctt cntattaaac ngganc 466

<210> 9738

<211> 520

<212> DNA

<213> Homo sapiens

<400> 9738

gaagtttggg gatgttttaa tgaccaagt tagggaaaag gatgaggaga gatcatgctg 60
ttagcaggct ctggggatcc tatggtcaca tggaaagagg gattcctcaa caatgagggg 120
tgtggtcatc tccataaatt gcagacagac attgaggtca gggagacatc ttcccacact 180
tgcaaaatct tcatanaaca tgggtggaagt ggatggacaa agatgtatgg tgttgccat 240
ttattattac cttgggggaa atgccagatg anctgatact gatcacggtc agattttgga 300
aacganctga ggatanccgt gcaaccanan ggtgctctgg tattcattgt ctancaccaa 360

gatgctcana tcaaattggt tgccgtcctt gaaanaacac attgtnggca tctccccctca 420
 cacttccagg cccacacac ntggctgtcn atnaccaaac aatgggcca atnccccccc 480
 aaaatggaaa ggcaaattct gaatttcn tcccccccn 520

<210> 9739

<211> 518

<212> DNA

<213> Homo sapiens

<400> 9739

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 tccttataaa aatcaagcct ctatgacttt ttgtctttcc agtgtgagat ggcaaaaggc 180
 ttcattgggt tctctgcctc ttagtagcaa tctcttctct gatcccttg tttgaattct 240
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 tttctgacct tntcttgga tgggaaatta ggaatnaaga aaaggaaaag cccacttttt 480
 tgctactgcc aaaattgcat tgcncncttt ggantntn 518

<210> 9740

<211> 556

<212> DNA

<213> Homo sapiens

<400> 9740

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特平 1 1 - 2 4 8 0 3 6

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gacctcaact accattcaca aggtgcagtt aananaacttt tggacagttc acagtgtcaa 300
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aatttcaaaa catcctaact tgctgtnaaa tteccanaat tcctttatcc tccggtcccc 420
ctccccaaaa aaccnccccg ggaaccttta cctccattn aaaanaggaa ggcaaccctn 480
cttnccttttg gccncccttg ggtcagttac tttttggtga atntccccct ttccaaaaa 540
gggaatttnc cgggaa 556

<210> 9741

<211> 487

<212> DNA

<213> Homo sapiens

<400> 9741

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aactccaaca gataacagaa gggcaaaagg acaggaacat ctgatcaaag aaacacagct 120
accgatagca cacaaatatt caacctcatt aataatcaaa ggattaggat gcacttcttg 180
cttattcaat aaagttaata atttctaatt tttctacttt tcaaagtac tcaaagtgc 240
tatttttagt aataaaaaac tgagtaatta aaaaaacata gaaagtatga aaatttctgc 300

<400> 9742

| | |
|--|-----|
| gttttttttg gtcatactac atttcacttt attattatta acatttatca tacacggggt | 60 |
| actattccaa tctttcatgc agacaaaaat aaacaatata aaatacataa tgcactttga | 120 |
| taattttaac catacataaa atatgggagt aatgggaagc tatgtttacat ggatatttta | 180 |
| caaaggaaaa aaagatgact ttataataa cacatccaga tgaaatttat cattaaattt | 240 |
| tggatttcat atgatgttaa gtatggatat attcaaaaca attactattt atagaaccaa | 300 |
| tttgatattt tgtcatttaa aataatgaat actatgtnaa tgagtactta taaaaatatt | 360 |
| tttaggcaaa aagctctggt ctactcattt acttgccagt tacaaaaata tatattcntc | 420 |
| tgaaactcna ataaatttgc ttgangnntt agatattcca attccaatgt ttattttcna | 480 |
| aagcgtccta ncca | 494 |

<210> 9743

<211> 534

<212> DNA

<213> Homo sapiens

<400> 9743

| | |
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| aacctccacc tcccagggtc aagcaattct cgtgcctcag cctcccaagt agctaggaat | 120 |
| acaggtatgc accaccacac ccagctaatt ttgtgtttt tagtaaaana cagggtttca | 180 |
| ccatattggc caggctgggt ttgagctcct gacctcaagt ggtccaccgc cttggcctc | 240 |
| ccaaagtgct ggaattataa gcatgagcca cgctaccag ccaccctag gaaacttta | 300 |
| tgccacaaat gtattatata tctgtttatg tactatggcc ctttgaaggg tcaaaaacca | 360 |
| ttgttatatt caagattttt ttacacctt caagantcaa catttgcctt cttgcggtag | 420 |
| tatctcccat tgaaaaatgc atgctgtanc gcatgttaca atatccanan tatatttta | 480 |
| ggtaaaaaca ccaaggtgga aaaanantat ttacantgcg ctaacacttt tctn | 534 |

<210> 9744

<211> 530

<212> DNA

<213> Homo sapiens

<400> 9744

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aatgaataaa atcctttgtc caatactgta cacataatgc agaaatcagt geatttttct 120
taagcatgtt ttaeettca tttagttcat actaaaatat aataagcttt aaatagctca 180
aataatattc agcagtttaa actgtaaaca gcttggttaa ctgttaanag aacattgcag 240
taatgtacct ctgttagtga gcaccttctc ttctgtgctt atctcttcaa gataaatata 300
tggaaggatg tgaaaatcgg aacaccaact atgtgtctca ctgcatctaa gtgaagcacc 360
acagctgtga gagttttcna agcaaaaana ngctgatgtg acctccggaa ttcanacata 420
ctgagctatg ggctgnaaat gttttactta aaaagccaac aatccccgg aaatctgaat 480
gggaacngcc ncccngggcn gcctgtgttg tttgtttatt aaaaccnccn 530

<210> 9745

<211> 543

<212> DNA

<213> Homo sapiens

<400> 9745

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tttcctttgg tctacaatcc acgctatagg aggttcaata taatattaaa taatgtac
tttaccctaa aagtaggttc tagaaaactg actattagga ttgaataaca aggctg
ggctcaattt tcttatgatt atacaacat ataaatcttg aaaaggtaac gcc 360
aaaatccata aaaataacag ttttgccaca gtgcaaaaaa aagttcattc 420
cccatgccct cgacaagcag ctttctgatt anagctggaa aacacaggc 480
gnaccccggt antccanct actggggagg ctgaagtga aggatca 540
tttccgaaca tctgggcaca taccaaaacc ctgtctcttt tttaa
ntctntactt cntncttga aacntgaatt ttctacgaaa att 2002-3046774

aat

543

<210> 9746

<211> 545

<212> DNA

<213> Homo sapiens

<400> 9746

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gctattatag tctcggtctc tccttgtagc tcaactgatt ttgcaaacgc ttctgttttc 120
tgtaacagtt cctgcctttc tgtctgtagt ttggtgatct ccacagattg tgagtttaac 180
tganacttta aagttgccag ttcctgtttt aattctgcaa cttgttcaga atctctagct 240
gaaactattg ctgaanactg ttcatttggt ccagatgttt gggaagattt catattttca 300
atcatagagt ccttttcagt cagctggctt tgtaaaagtt cctgattacg ttttaattct 360
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ctgtaagaan ctggaatgct gatgtctttn ccantgtat tttaaaaaaa tatactggtc 480
ttgtgcncgt gatctgtgan actgctgtgt tacgccgnct gaaccgtcat ttganatttn 540
atgtt 545
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<210> 9747

<211> 518

<212> DNA

<213> Homo sapiens

<400> 9747

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cactgcaacc tccgcctcct ggggtcaagt gattctcgtg cctcccaggt agctgggatt 120
acaggtgtgc accaccatgc ccagctaatt tttatatttt tagtaaanat ggggttttgc 180
catgttggcc aaactgggtt agaactcctg gcctcaaagt gtctgcccac cttggcatcc 240
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caaaatgctg ggattacagg cataagccac cgcgcccagc caacacttaa ctgatttctt 300
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 cgttcaccca nnaattcttc tgaaaacnct gttgttcctg tgggtggctaa tgttccccca 420

aaatggaaac cccnttggcc anggaaaatt taaattaaaa ccnntaaaat ttaaaaaaatt 480
 ccttaaatcc gnaaccaatn acaccaaant tccttttt 518

<210> 9748

<211> 513

<212> DNA

<213> Homo sapiens

<400> 9748

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 agggttggat tccttttatg aaatcacctt ataatctctc atcatcccag gacagtgcct 180
 tttgggactg catgaatctt taatagctac accacatitt ctcaccttt aagttatgac 240
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 caggtggagg gagaatcacg acatcattcn taaataactg tggantctgg gatgctggct 360
 gaaagcatct ccangaaaga ctggagggcg antttgctaa agggctgctc actgctcntt 420
 tcaactgatg ccccttttct ccctttggtt nggaatttna angaccnttt ttccccaaaa 480
 ttaaaacccc cnttaaaac canccctgcc ctt 513

<210> 9749

<211> 505

<212> DNA

<213> Homo sapiens

<400> 9749

gagtattcca gcattattta ttgatcaga ntaaaatata cttcccatca ctacaaactg 60

特平 1 1 - 2 4 8 0 3 6

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 atgaaacatt tggtttaaac aaaatcttaa gaagtctcta tttgtttcc catcttcct 180
 cctgtcctct cccatcctcc aaagatgttt tatattaact gctatgagat ttatttgccg 240
 gtcacgtnat acggaggaca gcagggaaca acacaagatt taccatgcct aggggatgaa 300
 tggcaaacc aactttggct aatgtcattg agaacaactt ggaagcgtga gcagagatat 360
 ctcatgaagt ggcagtgaac ctacatttcc atttatcaga agcnaacatg gaaggttaca 420
 tacatgatga antattggaa gttaaagact tnagacacca aatccctaatt ttnaaagaac 480
 atgccnctg natttcaact tgcna 505

<210> 9750

<211> 608

<212> DNA

<213> Homo sapiens

<400> 9750

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 taatttctca ttgtgaattg attgggtccc tgtaagtcca gancctgtcc tgagtccttc 180
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<212> DNA

<213> Homo sapiens

<400> 9751

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ccattgcact tttatctgta ctgacttggg ctacttgta gttgtatatt tgcctgtatt 120
gtctcccata ctgaaacata aaatccccgt ggacaagaaa catgtcttac tcatcttagt 180
atttctagca cctagcacag tactaggcac acagtcnata cctaataaat atgccgaata 240
aatgaaagca cattacggaa tggaaggta aaagccacag ttggacattt tccataatag 300
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attcagactt ggggaanagc ccanaaactg ctacacttca cagatggta tttggaaaan 420
aaaattaatg canaaanctt gtgtactatt taataatanc tcaggaatag gtccaaataa 480
caaatccnct gatnccccga naa 503

<210> 9752

<211> 604

<212> DNA

<213> Homo sapiens

<400> 9752

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gcanacaagt ggtagcttg gctaaaatgt acaaacacc cagaaccac aaaacactca 240
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tgtctcggtt ggaaatnaat gggatccctg gttccacact tcccacacgc tgtgatactt 420

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ggtt 604

<210> 9753

<211> 589

<212> DNA

<213> Homo sapiens

<400> 9753

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cttccccctc ctnaaccttt ttcattttctg cctatctaaa atcaaaatcc cncctnatt 540
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<210> 9754

<211> 538

<212> DNA

<213> Homo sapiens

<400> 9754

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cctgaagtga aagcagtcct ggcaacttaa tatttgcttc cagatgggtc tctagtcagt 120
tcatgctgaa acacagctct gccacccaca acttggagct gaccagcccc caggggaaca 180

| | |
|---|-----|
| tggaananga caggacacac ctgttctana aaaccaggtc ctcagtaaac actgctggga | 240 |
| atgaaagcct aaaattatac agtactccat tcctgtgaac gggccaaagg atgacgggca | 300 |
| acacagggga aacctgtttt cacatttggg catctcctca catttcgtnt ganctggang | 360 |
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| aaaccgtgtn acacaanggc ttgctttgcc cctgnaaact ggccctaaca tattatctcc | 420 |
| aggcaaaaat gccatgctca ctgcaaacta tggaaatgan gtcaaaacaa aatcaantta | 480 |
| ncccttgatg ggaaaaantt ggncccaaaa acccatttct aaaaanggtc ccctgntt | 538 |

<210> 9755

<211> 499

<212> DNA

<213> Homo sapiens

<400> 9755

| | |
|---|-----|
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| tggcggttat gctgacccgtg tgtttgatg gggtcacaat aacanggaa gccgangctt | 120 |
| cctacaaaaa gtcctttgtg gcaaactact atganangaa actccatcaa aagtcccaat | 180 |
| tggtcatttc atttctactg tgctacggaa gcctggtttt gttttaaggg ctaacgtcct | 240 |
| aggttttaag caattttttt tgagctttgg ctaccagct aacaagcagt aaaataatca | 300 |
| actcaaaact acgtctgatg ccaaagctct aactctaaaa ctcaatatan antttttttt | 360 |
| ctgtgacacc tcccctcgtg tctcccctaa ctgcgactcg cattaactcg ctgctggttc | 420 |
| ccanctggan ancacaaatt gcacctgctc cnaaacccaa cggggctcaa tntctccgca | 480 |
| ctcaaccten gctgcctnt | 499 |

<210> 9756

<211> 607

<212> DNA

<213> Homo sapiens

<400> 9756

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 aatgtaataa ctgaanatat gggccagitt gtccatgtca cgttccgact tgtangtcag 360
 ggtgaactgt ccattaatgc tgtaaaccct gaccaacaaa gcagaaatta cnatgttaac 420
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 anaccttca agctgagtaa tcctttatcc attaacatgg tgttacttaa aaactactaa 540
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 gganann 607

<210> 9757

<211> 509

<212> DNA

<213> Homo sapiens

<400> 9757

caactaaaat gggtttattg agatgttttg gttggaggan atactttttc tggcaacatt 60

<211> 434

<212> DNA

<213> Homo sapiens

<400> 9758

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aagtgagcag atattttaat atgctttatg ttaataggat tctgataatt ttagctttan 60
ttaatgcaac acacttcctt gggtncaacc atgacctctc tgagaactgg aaaatactgc 120
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gaggatgaac tatgggtagt cnagaccacc agtcatatit gtctanccgt agaaacagtg 240
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tgaacttgcn ttaa 434
    
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<210> 9759

<211> 396

<212> DNA

<213> Homo sapiens

<400> 9759

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ccaaataggg actaactgga ggggtngaag ggaacaaggt gaaaggtatg ggtcctggtg 180
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ggttcncgaa aggaaattgg ggacatttcc tattccagtg catgtcccct taaataaact 300
gggttcagga cnttntgga agganaaccc nnggacaaaa aacaaancga gcacccccnc 360
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<210> 9760

<211> 576

<212> DNA

<213> Homo sapiens

<400> 9760

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 caagcagaat agacagaggg ctcacatca cttatgtctg aatcttcac tactccttca 360
 ataaccgatt tcttcccttt acaacaggat acaattaatc caatcaaaaa taccccaaga 420
 aagggccagt taccaaaata gtnagcacc tgaagaacc aaactnttt aaggaatagg 480
 tttttccggg taacattacc tggnttttcg ggaaatttgn ntcanttttt tttgggaaaa 540
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<210> 9761

<211> 496

<212> DNA

<213> Homo sapiens

<400> 9761

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 gcagttgtac atccatcac acatctaagt ttagaacact ttcattgccc ccagaataaa 180
 ccgtgttcct gttagcagcc actttccatt cctccctccc gccagcctgc agcaactact 240
 aatctgcttt ctgtctggaa atggaatcac acaaagcctt ttatgtctgg cntcttcatt 300
 actttttagg gccatataat attccattgt tatagctatg ccanatttgg tttatctatt 360
 cattanctga aggggcattn gggctatncc catttctcaa ttattataaa taaggctgct 420

特平 1 1 - 2 4 8 0 3 6

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cccagnaatt gtance 496

<210> 9762

<211> 496

<212> DNA

<213> Homo sapiens

<400> 9762

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cattctccat ccagttttgt tctcttgctg gcaaggantt gtgatacttt gcagganaaa 360
aagtgttctg gtttttggaa ttttcacctt ttgcaactgg tttttcctca tcttcatgga 420
tttatctacc tttggtcttt gangcnggtg aacctccgaa tgggttttng tgttggaatt 480
tcctnngtt naaatt 496

特平 1 1 - 2 4 8 0 3 6

gcangcanga ntctgtgttt gggggtctgt ttcaatacca tctcctgggg ttgccgtga 300
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 accactgcaa gctggangcg gctgggtatc anggcctggg caccctgctc ctctcttcc 420

cttgggattg gcattttatc tctccttcac tcaaaacatg ggcangaaat ctcngcncc 480
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<210> 9764

<211> 456

<212> DNA

<213> Homo sapiens

<400> 9764

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 tatgatgaca aagatgtgta gaatcatgtc aactaccgct acaaatcagt aagcaaaaag 180
 gtnaaacaat gaaaatttaa gaaaaaaca atttattgaa gaaacacaaa tagccccnaa 240
 acataccaga agatgttaaa cctcactaat gattaaatcn atgccnaata aaatgatact 300
 gaggnagat ttgcaagtna aactaaagtt actaacaaaa tccaatgtta gtgaaactgt 360
 gagaatatat gcctttgttc acattattgg caaaagtnen aatttgggggt ctgaaaggaa 420

natacattta aggcataat aataggtnc actgaggaca tacattgtga agaaaganaa 180
 gaataagtcc aatactaaaa catacttate atgacaactc naggtgacat gaatatttaa 240
 tgaaaattta gaatataaca acatatgact ctcatctgt ggacataaaa ggaaaaatac 300

agtaattcat ttactcatt acattttaca aaatcagccc aatgaagcag tattttttaa 360
 taaaaacagt aatttaattt caaacaata tattaccatc ccaatccctt ancctggta 420
 aatntttcn aatgggcaaa acntacttta ctgaaattca ntaccanncc atccca 476

<210> 9766

<211> 492

<212> DNA

<213> Homo sapiens

<400> 9766

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 accttaagaa aattcngttt gntccataa aacagatcna cncagaacaa ggaaacccat 120
 agatatttgt naatgagatc ttctcttttg ctactgtgta tatatattcc tttatattca 180
 tacaaactcn caacacatga catttcatat ttcatatgcc actgagaaga ggtgtctgtg 240
 tncagaacat aggaagaaga aaaaagcntg agaacatctg cttagttaga atctgatgag 300
 gagagacgtg agagctattg ttctctctc tgctcaggcc tatcgagagg caactgcagt 360

特平 1 1 - 2 4 8 0 3 6.

gttttttggt ttgttttttt tttgtttggt tttttttgca gcagacaata tcattcagct 60
 tgtgtcagct ttcctataa gggtaagaaa agtttccatc aggtagccac ttgtttttat 120
 actgaaagac taatctgctc caaaatgctc ccaagtagaa atgacaggac tcaaaatccc 180

tttctaaagc ccaacagcta actttttctg actaatctct agcttcattg aaactggcta 240
 ccaagattgc atttcaggct aacaattggc ttcttagtta aggcattcaca actgaaaatg 300
 gttatttcaa caatggatgc tgtggatgaa ggaataccaa caaacttcta agaactctca 360
 tcaaaaacta aagcaatttg ctttgcccca gtggcaggca gaaggaattt agcccattat 420
 ctcacaaact aggaaangan ttttggaatn ctnantance ant 463

<210> 9768

<211> 536

<212> DNA

<213> Homo sapiens

<400> 9768

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 tcctgcctca gcctcccgaa tagctgggat tacaggcgtg caccaccatg cccagctaata 180
 tattgtattt ttagtaaaaa tggggtttca ccacgttggc caggctggtc tcgaactcct 240

<400> 9769

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 ttctgtggct gtgtcatcct ctctgtatac tttaatgggt ttatcagctt cagctgttag 180
 taatcgactt tcagactgat caaaagcaca agcaaatatt cctgattcac tgtccaaaga 240
 cccaggttgc acagctgcgt gaactctctg aaaattgtag ccagttctcc agtcccaaag 300
 atgcatgggt ccattgtcag ctccagatac aagcactcca tcagaattta ccgtcaatgt 360
 gttaataata gcattatgac cggaagatt ttgaatgaaa ctccatcag ggaatttcca 420
 ctgctttatg ttatctggag aancanagc caatgtntta tgtcttggat gttaaancnc 480
 agcccnaacn gaatttt 497

<210> 9770

<211> 598

<212> DNA

<213> Homo sapiens

<400> 9770

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 ctgaataact gggaatacan gnacatgcc ccatgcccg gctcattttc tgtattttta 180
 gtaaaaaaac ggggtttcac catgttggcc aggatgttct ctaactccag acctcgtgat 240
 ccgcccgtt tggcctccca aagtgttggg attacaggca tgagccacca cacctggccc 300
 ctcttttctt tcttaatcac aggatttggg tcactcttct gtaggcaggt gagtttactg 360
 cacatactct ggaataccac tgttcanaat gtcaaattaa atacagtgcc aacactgact 420
 gaangcgttt tactggggaa aaaactactg aaaaaagaat tentaattat nttctacanc 480

<210> 9771

<211> 607

<212> DNA

<213> Homo sapiens

<400> 9771

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gttggtgttg taaagtcggg gttttgcat gttgccagg ctggtctcaa actcctgggc 60
tcaagtaatc ccctcacctt gaactcccaa agcacttggg ctacaggtgt ganccactgt 120
gcctggcccc taaagtatct ttaattaagg tatatacatt gtgttttana cacttcgcag 180
cctacagtac agtgtaaata cttttttttt tttagacga aatcttgctc tgtggccan 240
gatggantat ggtggtgcaa tcatagttca ctgcaacctc cgcctcccag gttcaagcaa 300
ttctctgtgc tcagcctctt gactanctgg gactacaggt gtgcaacccc acaccgggt 360
aatttttgta tttttactaa aaacagggtt tcaacatgtt ggccangctg gtcttgaaat 420
tcctgacctt gtgatccgcc caccttggnc tcccaaaant gctgggaatt acangcgtna 480
accaccgcaa ccnggcctaa tttttttttt ttccattttt gggtcncctg aaaccccccc 540
nccccgttca aattaatata ccccccccc caccantttc ttaaaatacg ggacccccca 600
cttnccg 607

```

<210> 9772

<211> 600

<212> DNA

<213> Homo sapiens

<400> 9772

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aatttttaac aaaattttat ttagagcatt aggaaaatca tattcaaac acagaaataa 60
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aaaatttaga atgtnataat tattggaaag gaataagaag tgaattacct ctaggagat 360
 accctgatca gtgcctgctt taatcagaca aaacactaag ttttaaaaat tacaaccaca 420
 atattatgcc taactaaaat tgccaatatg aatacttttt tacagaatac attacatgtt 480

ttccagaana aaaatacttg tttcctatcc cccgaacctc ngttaaaaaa aaatntttcc 540
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<210> 9773

<211> 500

<212> DNA

<213> Homo sapiens

<400> 9773

gaaananaat ttcgttcttg tctctcaagn tgcagtgcaa cagcatgac ttgntcact 60
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 ttacaggtnc cgcctatcac gcccggttaa tttttgtatt tttagtaaaa acgggggttc 180
 accatgttgg ccangctggt ctctgaactcc tgacctcagg tgatctacct gccttggcct 240
 cccaaagtac tgggattaca ggcaggancc accacgcccg ganaccangt tcttgacct 300
 agtctgtaat taactgattc gggctaagcc acttantatc tctgggcttt agttataaaa 360
 tgaatnnaca ggactcaagt ttccttcttg ctccnaatgg ctatacttta aatttatttg 420
 gttattcccn aatanccaaa naaaaaataa atcttatcat ttctatcatt aaaaaaagg 480
 nnatccttgt ncccccttgn 500

<210> 9774

<211> 479

<212> DNA

<213> Homo sapiens

agaaatggtc caaatactat cacaaatgga agaaagtcca gcttgaggag catccaatca 120
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 attatctacc cegtcacatc cttcttgcct ggcatcccca gagctgaaga aagggaagaa 240

aaaaaatgga tttgtttttt gccatgaaaa atcttaacgt aaagattaat gcatcttgct 300
 gcttaagana aagggtgttac tttcactcgg ggtaaattaa atactaggat tgagactaat 360
 ctgttcacag ccaaataagg gtttactgaa gctccaacgt ttgaataaag accacttatt 420
 gggaagacnc ccccnfaatnc ntnttatcc tcccctccac naatttttat taagcntcc 479

<210> 9775

<211> 581

<212> DNA

<213> Homo sapiens

<400> 9775

gtcagancaa gaacactttg ttttggattt ctcccttccc ctccacctc ccacctctgg 60
 aatataccgt ctgctcaagt acccaagata aganttacac agatcagggc anaagaccgg 120
 gaagaatgaa aaaagataaa gggaaggaag tctccnctga agaaaaaaag aaaaaaaata 180
 aaaataaaaa aagggtgcaa ttgattacct tagtcctcct ttgtctaccc ctgggctcct 240
 gggttaaaga catgtgtgca gccaaaatat antgttaggg aanaaaaacc caacacgtcc 300
 cttcttgtcn caaaacccaa aggtgagcct caaatgggtc tgtctgtcca aaagggtgctc 360
 cctccangga aanggggcgg aacaggtcna aaacacatct ccaggcacia aagttttttg 420
 gtggctgatg gtgggganac tggtttcccc cccccaaaag gctgcncnnc ccccggtctg 480
 gtgggtgctc ccatccccc cccccctgna ggcaaatttt tttcctggaa accccccctg 540
 ggggcccccg gcggcnggaa aaaaaaatg cnntttgntt c 581

<210> 9776

<211> 483

<212> DNA

<213> Homo sapiens

特平 11-248036

<400> 9776

| | |
|---|-----|
| gtagtttaaa ttttaaaaca ttgagatacc acctcacaac tattaaacac tcaaagacaa | 60 |
| <hr/> | |
| cattagtaac tggctgtgtt ggggagggcc tgaggaaaa ggcactctcc gcattgtagg | 120 |
| agaatacatt gacaagagca tcatgaagg ccattcagcg tctatcaaaa caacaaatgc | 180 |
| atatgccctt agtattctgc tatttcactt ttgtggaatt tttcctacat atataatcac | 240 |
| aatcacatga aatgacatgt gtataaagtt attgattgca gcattgttta cagtagcaca | 300 |
| gtatcaaaaa taaccaaatt gacaccacta gaaaaaccag ctaaataaac tgttattccc | 360 |
| atcatgcaag gagatacttt acagctgtna aaatgaatga agatactggt tgttaaantc | 420 |
| ntatgaaaga ttttccnaga atttacattt tgaaataanc caggttccaa gcncaaatgt | 480 |
| ttn | 483 |

<210> 9777

<211> 412

<212> DNA

<213> Homo sapiens

<400> 9777

| | |
|---|----|
| ccagacacca caatgactta gagaacattt catctccaag agctgatttc aaattatgta | 60 |
|---|----|

<213> Homo sapiens

<400> 9778

| | |
|---|-----|
| aatctatgac tacaggaaaa catttattta catgccctct acaaaatgga ttacaaaaac | 60 |
| atagtaacta ttaggggtaca tgaccttgct cctatcttcc ccattgtgct tcttctctat | 120 |
| agaaaaccca atatgaaatg acaaagagta ctgtactcag aataagaact tcactctatca | 180 |
| taaatgtncata cataaatatc agtgaattgt catactcaag actcagattc aggaacttct | 240 |
| tcactcagggc agcagtaata ttccacaaaa catatttgct catcttcatt tctaatacata | 300 |
| tactgtaatg aaaggaagcc tctgttatct gtccgaatag ataccttaca agataggact | 360 |
| aatgcctttg tagagggttt cagtaaggaa atcttgtatc tgttgacttg ggtctgaata | 420 |
| caatgaaatg ctctccatc aaaatctttn gganatccan gggggaactn cccgcntttc | 480 |
| caaatttaan ancc | 494 |

<210> 9779

<211> 528

<212> DNA

<213> Homo sapiens

<400> 9779

| | |
|--|-----|
| aaaaatccat acaaatgata ttattacta tttcttgttt aagccctcat gtatcttctc | 60 |
| tattgtatatt ttggattctg taaacaaatt actgtatcat gaccaatact tgctcaagat | 120 |
| caacattgaa tcattggattt ggtgtcactg agtgcaagcc atgtgaggtc tacatgtgct | 180 |
| gggacatacc attcaccaaa cttctcagct gtttcacgac tgtctctatc aacttctgtt | 240 |
| tgtctcgatc attcttcctg aactgagcaa atatattgtt ctttttgcta gtatccttca | 300 |
| tcttctccaa aanantaagg gctgtgtttg gattcaccgc aaggactta aaanctggct | 360 |
| gcccataatc agctangtaa gtagaccaat cccaaacat aaacangtca aggaattgtc | 420 |
| tgaagggtcaa tgaatgctaa ctgcaagggt tccccccggn aaaccnggca caagntccaa | 480 |
| actngggaaa atttccnctt taaaactttt aaaaatggcc ngcccant | 528 |

特平11-248036

<210> 9780

<211> 441

<212> DNA

<213> Homo sapiens

<400> 9780

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gcaacatcta cctcttgga ttaagcaatt ctcctgcctc agcctcccga ggagctggga 120
ttacaggcat gcaccaccac gcctggctaa tttttgtatt tttactggag acggggtttc 180
atcatgttga tgatgaaagg tcccaaacct gaaacctttc acatntgaag cgaacatntn 240
atcactacac tacaaaaacc cctcncagtt cctggcacia aanatatcc tgaaatntta 300
ccatctgctg tttttaacta ctagggtttc caatataaca aattcnactg cttttcaaaa 360
tttgantnat aaatacggna ggaaacacaa tccctcaggc aanaggctg aaccctcatt 420
tacgggtccn cncctaacc c 441

<210> 9781

<211> 503

<212> DNA

gccactttct ccctctntta naa

503

<210> 9782

<211> 409

<212> DNA

<213> Homo. sapiens

<400> 9782

gattatttaa atagtttatt ttgttaatg ataggaatat ctcctcagta agttcaaacc 60
 atttataac aggggaanaa taagctagtg ttagatctgg aaaagttaat atagcattat 120
 cttgaaattt caggggtaaa aagtggttga ctggaacttc ncctttttta accaaacaat 180
 gttnaaataa acatatctga atagaaaact gtatctgggtt cttttttatg tcaaagttaa 240
 aatactttta taganaaaat tccatttttc tgcactctatt tagatgatat tacaataaaa 300
 ggcantgtgg attgganaac atagctagtg agaatattan gttngtaat ttataaaaaa 360
 attanccttt ccctatgaaa taaaatncat gatccctta attccncct 409

<210> 9783

<211> 599

<212> DNA

特平 1 1 - 2 4 8 0 3 6

agatgtatan attgtgaaan atttntccc actctgtggg gttgtctgtt aactctgccg 480
aattattcct ttttggtgca aaacctttta anttnaatta antnccatt aancaattac 540
cctgtccttg ttgcattgct ttggggtcnt gggcccaaaa tcttgcccaa ccaaattnt 599

<210> 9784

<211> 547

<212> DNA

<213> Homo sapiens

○ <400> 9784

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caaagaactt taaatctaaa ttactthttt aganactggg gtaagttgc atagtgaat 120
tatgagcacc ttttcaattc tgttcactaa atttcatctc tctcttcata tagtggtatt 180
tcaaaaggat tcagthttca tgatacaggt gtaagactcc tttcaaactg ttttaaaata 240
caacgtataa aaaaatgtgg actgaagcct ttagattgaa cttaaagttc tactgaatgt 300
caaaacaagc ctaagttgaa tataantaat tcattgcctc aaaatatagt ctaaatttta 360
aaagaatgtt gattctgana cattacatgc agcaggggaa aaaaactgca aatgcccaaa 420
ataacatgat atctatttgg tgttccacac tcctgggtgg taattcnaaa nggggaaact 480
tggtgatttc tgctttgtcg gcatactat nggtncgtnt ccnatntta ctttgactta 540

特平 1 1 - 2 4 8 0 3 6

ctagttctta ggagaaaatt cgcaggaaga gaggtatgag tagtttcaca gaatacattt 180
tcaagaattt tttaaaaact gaaactccaa tgcccagaac aagataaaca gtatccttag 240
cagttagcac tgtaataaaa tctcagatac acaaaaatca agttccagag ggcaaagcat 300

ttaattacag tccacaacga gcactgttgt gattcatata aaacatagtt ctctccaatt 360
tctacacaaa ccgctctttt aatttattta attagatgaa caatgaaaat cgttttcctt 420
ttcagcattt atctaagatg ttagaaataa caaagtagtt gcaataaagt gtttgaaata 480
tttaataaga atgttcgaac cttataccaa attaattggg gaaaaaaga aaaaanaatt 540
cctcctccaa ccaaccntt ttcctaaaat naaaatacnt tcccangga aaaaatttct 600
ngggngaatt acacccccaa cc 622

<210> 9786

<211> 560

<212> DNA

<213> Homo sapiens

<400> 9786

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aagtttgatg aaaggtacta aaaccagaaa cttttatttt aggaagtaaa cttgtatcaa 120
caagaaaatt cctgtattt ccagggataa taattcctca tctgcttatt tgaccctcac 180

<212> DNA

<213> Homo sapiens

<400> 9787

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cctcctctag cccccttgct acctcttaac aggcttcaaa gtcagaatac agccatcagc  180
tgagancagt tcattttggc acactgggag gccggctgtg cacaccggac ctctctagtg  240
ggggatcagg tcctctgctc tccantgggg cctggaacag ctccngtgag atgccccncc  300
tgtnggctgg gggtnanca canaacctca gtcceccca                               339

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<210> 9788

<211> 614

<212> DNA

<213> Homo sapiens

<400> 9788

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aaaatgtgct cagtgttaac tttattgata ataaccaaaa acaaacctaa tattttatga   60
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tttgtaatt ttgtctgcta cttttcccta tatttccttg tttccttcat cctaaaattt  180
ttaaaaaatga aaactttaat cattgttgca tgtttaaact attgaatatt ttcttttgtt  240
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aaaattgaat gttaggaggt tcttcgtttt agaattcttc ccgtgggaga agtttccatc  360
gaactgttat atcaatttta tcatcaacat ttcccagcgc ctgctcttta cagagttcta  420
agaacacctg ctccaaggta gcctgagaga ggctgtattc ctccangttg aaggtctggt  480
tcactgcctt taatttgaaa aaggctgana cagaagggtg acatccceca caggtaactt  540
acatgccata aagaagaata tcttcccgcc aaccaccgtg ggaaaacctc caaattccgt  600
ntgnaaactn cccc                                                         614

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特平 1 1 - 2 4 8 0 3 6

<210> 9789

<211> 421

<212> DNA

<213> Homo sapiens

<400> 9789

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ctgagatgat tgtgctgtgg ctccggggcc acatagcacc agggctcgat agcagagagg 120
agtttcggcc ctcgccagt gcatgtgact ggtgcagggg cggaggccca gccgcacggg 180
ggccagagca ggaacacagc cacctgttcc aacaggcgct gtgccttgta tgccccgtac 240
atgtgcctgc cctgagagga gcatgggcca ggcctctctt ccagctgtgc ccccagggtg 300
ccagtgaggc agggcgacct ctcaccaaca gagtcctcc aagccatgct ggatttggat 360
tcctggaacc ccctgtaccc atgcggtggg ccacccccag ggggagggga nganatnnnn 420
n 421

<210> 9790

<211> 573

<212> DNA

<213> Homo sapiens

gttggttggg ggccntttgg aaaggaataa aaaggcctaa aaaaaacccn ctgnaaagtt 540
ccttttaaag cctnttcaan cnaaaaatcc ntt 573

<210> 9791

<211> 434

<212> DNA

<213> Homo sapiens

<400> 9791

caaataatta ttggtcatcg gtcaagcana gtcttctgag gtctctatct taaaacagct 60
gcagggataa gggacatcac tacctactgt ctttgatta catgtgattc tgaaaactat 120
tcaatcctga aatgtaatca aatggccaaa tacaacccca atttaccact gatttttacg 180
taaagttgag tctttgatca caatgctgtt ccttaagaaa tgatcaataa ctgctgagag 240
atggttgaaa aatgcctttt cccacattt tggtttgttt gttgtttgct gactttactt 300
ggcaagagtt attgggcctc aaatcagata tttaactg taanacaact gggaancagg 360
gaaaagggaa aaggcaaggg gggtnggaaa aaggactacn aaaaaaatn ttttcttttc 420
aaangttaaa acna 434

<210> 9792

<211> 454

<212> DNA

<213> Homo sapiens

<400> 9792

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aantgggant tgcaaatgac anaggtttgg ctctgcacag ttttttcana aatccaggct 120
tat t att taatctgtgt aacacatagg ttcccaagtc acatttaatg tcaacatgaa 180

cctgggctat gnttcagga caaaaggaat cnggtttgat gaaaaataac cgggtgtcaac 360
cataancact attatnttct aggcactttg ctgggggatt cantgatgan caaaaaacat 420
ccttgatgaa caaaaatgac nttcntanta aaca 454

<210> 9793

<211> 318

<212> DNA

<213> Homo sapiens

<400> 9793

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atagcactac aaacatcctt agtcattcct tcatttggtc attcattcat tcatgcattc 120
agtgagtatt tcttaagctc ctacagtgtc ccaggaggca ctctgttcat tgtggcatta 180
caaagataaa gattaaggna cgtactctgc cctcaaggag ctcccaatct aattgtgcan 240
anagatgtga aaatgaagca tgaaactcca tcgtgaggan cgccganaac aaaagtctgc 300
tcgaagtgan gcanaant 318

<210> 9794

<211> 575

<212> DNA

<213> Homo sapiens

<400> 9794

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tcaagtgata tccccggctc tgcctcccaa agtgctanaa tttcaggcgt gagccccgt 120
gccagtcag cattggcttt cacatacatt cacttgcttt attttcttta cacctgtgtc 180
atatattaaa aaactacaca ttaganaatt taaaanattt gccaaagtg ctcanaaagt 240

cttgtctaatt ttgatttcta acattgttat tgattctacc cctaagtgcc ccaccttaaa 420
 ccacaaaatg ttaaaaatgc tggatcattt ctacaatgtt atctctaanc ctggtgaacc 480
 aaaaaattgc taaactactt tgtgcaacat tacaatggcn tgctgttact ttatttncca 540
 atccaaaatn ttcaaaaatn aaattnannc caact 575

<210> 9795

<211> 518

<212> DNA

<213> Homo sapiens

<400> 9795

ggatttatgt tgtcaataaa cattttatta gttccttgta tggataagaa gcttaaagtc 60
 aatgactaat tcatgccata tacacatatt cctgttttag attttctatt agcaaaccatc 120
 ttgttcaatt gttgttggga gttttgagta cattcagaaa atgaaacccc acaatcactg 180
 tttaacaaca atgagtatgt ntttttcta ataaaatgaa gctgcttgaa aaaaacatac 240
 cttaaaatta agaatgtncn cntcacttaa taagaatgtn ctcattatta aacaataggc 300
 aaatcaaaca aactactaaa gtggcaatgc tggggatttt gagttccgcc ccaaacttga 360
 aaataaagta aacagccctc aaactttgaa ataaatggat nccccgtga aattaatttg 420
 cctatncaaa aaacgaattn ncccaaccn tccaccctcc gaagggnntt tccccccact 480
 ttatccancc tttcgggcaa aatgggtacc nttaattt 518

<210> 9796

<211> 555

<212> DNA

<213> Homo sapiens

<400> 9796

gtncettaagt aatttatattt aaaattataa gatttacagt gccttgatta tgcaaaatag 60
 cataatggaa attaaaccaa atcaataaac caaagagaaa gaaaacttaa ttttctctag 120

| | |
|---|-----|
| tatccatact taaaccatct ttgtaagtat ctgatgtccc aaccatgtct tatgtagaaa | 180 |
| gtataatcgt ttcaaagtgt tcaactgcag gtttaatttc tcattttcaa tttttatgaa | 240 |
| ctgtaatgca atttcaaate ctattatacc tagtgtttat actgcaacag cagcaaatct | 300 |
| <hr/> | |
| cacatgtgta atcaaagtgt gaactggggc acagcttcta gctgtagaca gaaattatac | 360 |
| actgcattca gtccaggaga gtacattaca ttaaccagag cgtagagttt agtacactta | 420 |
| ttgcagggtg gtattttctt ccctctgac tgaatcagct gagctgctga gcagacatat | 480 |
| tactggtgtg gatagtaana ctgctgtggg ggctgangga anggtatna agctgctggg | 540 |
| gtccnggtnt gancc | 555 |

<210> 9797

<211> 434

<212> DNA

<213> Homo sapiens

<400> 9797

| | |
|---|-----|
| ctcaagctgg tctcaactct tggttcaag caatcctcct acctcggcct cccaaagtgc | 60 |
| caggattaca ggtgtgagcc actgtgccca gcctatgcta catctttcta atcccattct | 120 |
| gtatatactg tgattttact ttctgaagg ggcaaagaat gaanaattaa cagcaatcag | 180 |
| caagaaactg gtttctctct tactgacaac tcctctactc caanacagcc ttccatgggt | 240 |
| gtaactaatg ctgttagtca atattacagt ttgccccctt ctggggatgt gacaggattg | 300 |
| caatttctgt cctctctgtg gttaaaaagg gtttctgtta caattcctgg ccatacanta | 360 |
| tgantaatgt gccaaaaaat gggtaactcc attaacttgg gatccnnaat gtggagaagt | 420 |
| tatanttatg ttna | 434 |

<210> 9798

<211> 593

<212> DNA

<213> Homo sapiens

<400> 9798

| | |
|--|-----|
| aggtagtggg tgtattataa aatTTTTTTT atgaacatat gtttacaatg aaaaatacaa | 60 |
| actaatgatt tttttttcac gtagcttttag antcaaacta ttcacccaac agcaaggnta | 120 |
| cttgtgggaa cagaaaggaa actataatac ttccttttca tctcctcaac cactcatana | 180 |
| tggcctggct attgagtcaa attatttatt caggatgtca tcaattctct gtanatgata | 240 |
| tgccaaggca aacagcanaa atcacttcta aattctgaca gaantccaga ttttgccctt | 300 |
| cacatatgcc agtgcctccc aagtaaaaat gggctctaca ctgggctaga cactcnccag | 360 |
| aangggatgc ccacgccana canctgctcc acttgcagtc cttcctctgg cttcttacac | 420 |
| ccattacant gaaaanggtg cgggacccat acaaccagn caggaagaat gacaggcttt | 480 |
| gcaaaccgt ggtcaaaata aaanccnctc cacancgggg caaanatggc cttgacccaa | 540 |
| acctgggggg ggctgcagct ntncattaaa angttttggc ccaaactg gcc | 593 |

<210> 9799

<211> 588

<212> DNA

<213> Homo sapiens

<400> 9799

| | |
|---|-----|
| catcactatc atatatatta tgttgtctta ccattcaaac tgttggcact atacctaate | 60 |
| cacagtaaac aggattatca ttcccataat atgacttttc ttatgaanaa tttggtaaca | 120 |
| gtattctatt gtagttttca tganaaggct tttcctattc accaaattga ctcggttcct | 180 |
| tgtcagtatg aataatgacc caaggtttac tggggatggg gacaatgtag gaagggtccc | 240 |
| tcgcctcatt cagtgccttc tcagaggccc tctccanaac agccatgtgt gacattctga | 300 |
| tgtggtcatt tctatttaca ataataatac tatttttctg ctgcatgcgt ncaacantgt | 360 |
| tcaatccaga acccaccccc caggggggtt tntcacact gtttctctca accgtggctg | 420 |
| ctctgataaa cactgaaaca ctgatttctg aacaaaacct ttccccaaa atccccccct | 480 |
| tgttngggtt tgtcnccatt atttnttgc cnattttat ccaattggaa cctttgctaa | 540 |
| aggcctcccc cntccccac cccctttggg gtcncccc ttttnaat | 588 |

<210> 9800

<211> 416

<212> DNA

<213> Homo sapiens

<400> 9800

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 gtgggcagga nacttcattt ttaccacgt aagtctcttt ataggcctgc tcatagcatg 180
 gcagctagct tccccagag cgagtgagcc aagatanatt gggggcggtg ggtggcanaa 240
 aanagggt caagtaaaan ctgcagtgc tttataacc taatcttgga agtggcatgc 300
 catcattct gccatattct attggtcaca aanacaactt tggtagattg tgggagggga 360
 cacacacaga atgtntacac caaganacan ggatcntttt ancanctgta ttattt 416

<210> 9801

<211> 402

<212> DNA

<213> Homo sapiens

<400> 9801

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 taactgtatt tatttttaaa aaatagtttg aaatggtaat aaaatgcaat ttccanaanc 180
 atcttggtga tcgagtaaaa ctgcttaatt taaaaataa ttcagttact tccacctggc 240
 ctgggggtgga taacatgtnt caaaaacttc cntcccacta aattctggca aatggattga 300
 tctttcncaa tatatatata tatatatata ttttncncca tttctctctn atggaanccc 360
 naaaaccagg aagaaccncc cgttttgaaa aaaaaaatgt tt 402

<210> 9802

<211> 502

<212> DNA

<213> Homo sapiens

<400> 9802

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aagcaatatt tccatgcact cacaccagat catttctgaa atatgcaaac tcttaaaatt 180
catgttagta aaactttaat gtattcataa tacttgctat gtttattaga agatgggtcaa 240
aaaaaatcca tggttctgta caataatatt aacagtttgt tcattttcct ttaatatatt 300
ttggcttcca tgaacactcg tagattgaac attctgcaag taagaattat aatagtacct 360
ctgtcccttg ctgaattcnt cncacaaga aaaacacaaa tagtttaatg cttttgcact 420
aaactgaata attattactc ccaaattntt ttaactgaan ccttccttgn tantcaatgg 480
ntggattcctt tnaaacntt aa 502
    
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<210> 9803

<211> 608

<212> DNA

<213> Homo sapiens

<400> 9803

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gggagtatta ttattccaa taaacaaaaa tgttttattt ccnttcaat ggtatatatc 60
ttaaattgct ggaacataca agtatnaaaa taagattatt ttagaaaact ccagttttga 120
agggcncgac aatagttcag acatttgtca gtagctatga agccactttt aacatggaat 180
gaatatccct ttactccaac tcttggtcctt attacatttt taaatcaaat cagcgtgctg 240
gaaatagaga aaaattccca aagggaata taaaataatt ttaagcattt tcagaaatac 300
aagttacact taagaaactt gtattaaagg atgttaatct gagataaaca gaaacaaac 360
gttttgcaa gcactacttt ttgcatctgt ttgaggatac acagtttgca gctctcctgc 420
cagaagcaaa atactgactc tagcacagca gaaaaggctc nactttaaga aaaaaatgan 480
    
```

tggtcgcttt ccatgactga acataacata ttaaacttta agaattttta caatgccaat 540
taccaccata gtanaaaata ctctttttan aatacaaaan tcnctttnt ttncccttaa 600
aaatctcc 608

<210> 9804

<211> 588

<212> DNA

<213> Homo sapiens

<400> 9804

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agcatatgcc accacacccg gctaattttc ttgattttct tttcttcctt tttttttttt 180
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atcctcctgc tttggcctcc caaagtgctg ggatcacagg cctgagccac catgcctggc 300
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tacttggtat gacttcagtc ttcttaaact tgttaggact tgttcgtgac tgttatggtt 420
tgaatgtttg tcccctccta aacttatatg ttggagattt aatcaccaat gcaacagttt 480
tggggaaggg angcctaata ggaagtgtta ggtcatgaag ggctttaacc ttggtgantg 540
gaataatgcc gcnccttgaa aaaancnaat tggnaatggg gtccncc 588

<210> 9805

<211> 542

<212> DNA

<213> Homo sapiens

<400> 9805

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accacagaat ctgaggtttc aaagatctgt ttgaaatatc ttcatttcat taatttgaaa 120

tttggggcag gatatgatct taagantcta aacattcaag anacgagggc aagaaagcca 180
 gtcacatgtn gaataccaag tccaaggcac gcgtcctgcg gtcaggacag tgttctaggt 240
 gtgaactcac ttaccgtggg gcctatgaan caggagtgtg tggccttcna anttcgaatg 300

tgttcatgtg ggtgtgtagc gtgtgaatcg gacatggaaa aaaaaaaatc ccctatctgc 360
 ccagtcaaaa ataaatgtnc acctgaaaat cagatgcaac actaacttgc aaagattccc 420
 acaacataaa aaaaaaatga tgctttcatg ttgctgggcc gtggacaatg tggaaaaact 480
 gaagcggttn cngcgctggt gtcaaaacaa ctcctntnca aacanggggt ngaatttngc 540
 tt 542

<210> 9806

<211> 577

<212> DNA

<213> Homo sapiens

<400> 9806

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 aagcctcaac cttctgggct caagtgatcc tccagcctca gcctcccaag taggtgctgc 120
 tataggcacc catcaccaaa cccaactaat gtggttttatt ttttgtanaa atgggggtttc 180
 actatgttac ccaggctggt ctcaaattcc tganctcaag caatcctccc accttggcct 240
 ccctaagtgc taggattaca agcatgancc actgcacctg gctgacattt taaaataaag 300
 gttaagtgt atggtctgaa tgtttgtgac ccccaaaatt cctgtgttga aatctttacc 360
 cccaagggtga taacactang anggtggtaa gtgagcctgt aagcctttgg gaagtgatta 420
 anggggaagg gcaccttgaa anggattaat gcccttataa taaaagcctc anaaaactcc 480
 ctccacctat ctaccatggt aaaatcccca tctgtnaanc aagaaaacaa gnctcaccaa 540
 anaccaaate tncgggcacc ttgatnttgg acttnca 577

<210> 9807

<211> 610

<212> DNA

<213> Homo sapiens

<400> 9807

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caaccactac tttcactgct tcctataaat ttgatacat tgtattttca tttttattta 180
gttcaaaaca ttttaaaatt tctgttcaga ctctctcttt gacctatctg gtatctanaa 240
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gcaacctctg tgggtggaac caggatgaaa ntatatgcat ctgtgaaaaa ctggccttcc 480
atctgttttc tgatgcaacc aaaatgcttc agggctcgtc ttatctggaa ggttgaatgg 540
ctacaaaact ttanggggct ccngttaaaa ctcaaactga aaaatcctgg tccccgntcn 600
gnantctttt 610

```

<210> 9808

<211> 583

<212> DNA

<213> Homo sapiens

<400> 9808

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ggttcaagta atttaccac cttggcctcc caaagtgctg ggattacagg catgagccat 120
cacacctggc caatttttct aaaagtctga aattaagtca aaattttgaa aaagttatag 180
caattatggc aatctcaatt atgggtaaat gtgtgtcaca ttatctcctt tacattttaa 240
gtatttcata attaaaaaaa aaaagcagan aaaattgttt atcagaggaa acctcanaag 300
anatgaggca gtcgtcagca agtanaangc tccctttcag gaaactgaaa ccgggtgcc 360
agtggctgca naacgggtga nanttagcc cccacctctc cactggaacc tantgacccc 420
atgcanataa caacctgccc aactcttcac cctgacctgg catcataatt atctataact 480

```

ggcagttctt ctctgacggg ataaattaat aaacnttaaa acncctctaa aattttttac 540
ctgttggtcn cgccgggtnt gccnntnttc actccccctt tgt 583

<210> 9809

<211> 602

<212> DNA

<213> Homo sapiens

<400> 9809

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gcaaccttcg cctcccaggt tcaagtgatt ctctgcctc agcctccgag tagctgggat 120
tacaggcagc tgccaccacg cccagctaatt tttgtactt ttagtaaagg cagggtttca 180
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tgaagancct agtttagcaa tttaaataca gaaattatac aaattgttcc atggagatta 420
aaaagaaaaa ggagctcagc ttncctaag tgacataagc ccaatataaa anatatgttg 480
gatatttga anccactcc ctttanaate cctcctctt ttaaaaacat aatgtttaat 540
tccaacctg aaaccnccat tatgattnaa attactttg aaaaatnatt naactttgaa 600
ac 602

<210> 9810

<211> 605

<212> DNA

<213> Homo sapiens

<400> 9810

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ggccactaac ttcccaagga ggcagtgcc aaaagccctg tggttttttg atccgttgta 180
 cticgatagc tcttcctttc cctagatcca gcagaactct agacatgtna gacatagttc 240
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gtcagactta aggacaacta gacagagctc ccattttctg tcatctgggc aggaaccaat 360
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 aaaaa 605

<210> 9811

<211> 609

<212> DNA

<213> Homo sapiens

<400> 9811

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 ttaaaaaaaaa caatgggtgaa tacaaggat catcatttta agggtaaaga nataaagcaa 180
 gtacatatac aaatccactg gaaaagctaa gtttgagct gatttcctct cttgaattgt 240
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 gttgttcaat cgactgatga aaaaacaagc tcntattcaa aaaaactttc aaaacacacc 540
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<210> 9812

<211> 468

<212> DNA

<213> Homo sapiens

<400> 9812

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gntggatttc aatatttggt agccctataa gaaaactgtc tttcacctcc tccaacaggg 180
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ttgcgtnncc gcagaaactg ttctttgtag cccaaaatgc agccatcttc ataatcttca 360
nggtctgtgg agtgtgccaan ccataatgta tagtccttct cttccctaaa ngananacac 420
actgttcang aaagtaccag cacanaaccc ccacgggaag cantgcca 468

<210> 9813

<211> 576

<212> DNA

<213> Homo sapiens

<400> 9813

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576

<210> 9814

<211> 532

<212> DNA

<213> Homo sapiens

<400> 9814

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<210> 9815

<211> 537

<212> DNA

<213> Homo sapiens

<400> 9815

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tttttttttt tttttttt tttttttt tttttttt tttttttt tttttttt 180

ttgactantg aanttgttta gctcaagaac ccactgggct cccaccaca ttgganctgg 360
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 caccttcctt tggccaaatt ctnaataccc tgaactggcc tttccangcc cgcgggtgga 480

atcaattttc cctgntcttn ggggaaaaac ccccnntgga tggacnccaa aaaggaa 537

<210> 9816

<211> 573

<212> DNA

<213> Homo sapiens

<400> 9816

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 tattatttta ataatgana ctgaacgtcc tcttataagg ctcaactcct tgttctact 180
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 actataatat ttgcatacgt atgtgtatat atgtatttgc ttttttaaaa aggtaaaaat 360
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 tatcacataa cttggcctta ttggcntgcc cacctaaaaa aaaaagggtt gncctatngt 540

angatccctc ttttttctat tgtttagaat agtttcacaa gggaatggta ccagctcctc 120
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 gaggccatta attactgcct caatttcaga acttgtgaat gatctattca gggattcgac 240
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 ccgaatctan ntaattcctg tctccgccan ctttn 575

<210> 9818

<211> 571

<212> DNA

<213> Homo sapiens

<400> 9818

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 gccagtggan tctctccaag tgacctctca gcaattgcaa ctaccataaa accaggactt 180
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 gtagaatttc cttttttagt tcttttgatt tctggaggtc actgtctgtt ggcattagtt 360
 caaggagtgt cagattttct gcttcttgga aagtcitttg acatagcacc angtgacatg 420
 cttgacaagg taattaagaa ttaaattctc ccaccccttt tgttatgttg tccattccac 480
 taanttacaa taaaatttct nccccatccc ctaatnttct naatttttct tataactgaa 540
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<210> 9819

<211> 586

<212> DNA

<213> Homo sapiens

<400> 9819

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ctggggtcct aacagttgca aaacaagtct acaccattcc ttagtatgaa aaagcaacca 180
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tttatgagaa acttggttga atgagtcctg accactttat ttgacattta ctaaagctgt 360
ataaaagcca tgcacagttt atttacagta ttgtacatta aatgataatg tttgaagatc 420
acacaaagat ttcacaaaac tataactaat acagaaagat gtgtgaaaac attaaggggc 480
ttccaaantt taaggttgga aatttggcna aaatatting gcttataatn tttgggcanc 540
cctaaccgga aataattgac aaaacctgcc naaaaatacc ctccn 586

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<210> 9820

<211> 569

<212> DNA

<213> Homo sapiens

<400> 9820

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catgattcca ataagcttta aatcaatagg caaacacttc tcatttatga tccatcttgc 60
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anagggattg ctgatctgct aagagaaata attaaaaaaa aaaaaaacia aaaaaaagga 180
caaccataca ttttggtagt cttttaaaaa aagctactac aaagatatca ataaccatcc 240
aaaaatcact taaaatttaa tatcccttaa ttccaaana cactttgtga tctgactgtt 300
cttgaaggaa agcctanaac tgaaaactac taaaacttgg ctctctctta ggaaatgtgg 360
aaacaggttt tctgcaaagg aaaaacttga caagggaatg ctacaaaata ccantcccct 420
ctttaaaaac tcctcccacc tctcctgctc catttnatgg aatgggcagg ctggattcaa 480

```

aaaggccctt cccaaggaac tgtttaaatc ccncnaaaaa tccctttcca anggattcnc 540
tttgaattta aaaaaacttc aanntttnt 569

<210> 9821

<211> 575

<212> DNA

<213> Homo sapiens

<400> 9821

aacaatgaat atgcaggatt tttattaggg naagcgtttc cataaccata aatattttctt 60
taaaacaaat aaatgtccca agatctctgt tagtgatcca aactaaggag aaattagtaa 120
aattaattat aaatgaacaa tttcagcata taaaccaaca agtcttttct agatttttaa 180
cactgtgacc caattgcatt attttccaag ttagaatgac taataatcaa tgaatgtaaa 240
agcaataatt aatacagatg acattctact tttccacagt aaagaaataa acaatctaata 300
atttttataa atcccatttt atatcacaaa ataaccttta ctaagcaaata ttttttaaaa 360
tctcaggaaa ggaaatgtaa aatccttatt tgagtataaag aaaatgctat aaagcaatga 420
gttntcaaaa tacagaagaa gtattctaaa acaaatgaaa aaccnagatg atgaaatagt 480
gacactactc naatgttttc ananactgaa atgccagggg aaannaactg aattattcct 540
taagccgtgg aaaattttac tttcaaaatg canaa 575

<210> 9822

<211> 458

<212> DNA

<213> Homo sapiens

<400> 9822

attgtaaaag ctttttattt tagtaaaata tacagaagtt ctttttctga actcatttat 60
gatgatacca acctgaattc taaaacagct tcctgattct tggacactgc tgtcaaaatg 120
acattcagtc tgcaacagcc ccaagaagca agggcaaagc caggtgctgg ggggcctggg 180

tcctcccccna nccctgaaag tggagtaaag atgtttggcc caaaaaaggc tggggtgcaa 240
agccagggtca ggggaaagca nantccgctg ggccttgtag gggggtactg gtgccaggct 300
tcctctgggac accccaccg aacangcaca ggggccacgg ggcacaaacc cactgaaagt 360
nccgtctcca ccaccanaa gctttattta caantnaaca cactggtctc tgtnaactgg 420
aatcctgaag catccacac cnaaaactna aaaaaagt 458

<210> 9823

<211> 505

<212> DNA

<213> Homo sapiens

<400> 9823

ggttattcac aagttttgaa ctctattcct ctggggtgat ttttataaa gttaaacaca 60
tccaaacttg ttgtgttaca ttattaaatt aaatacattt ttccttttga agagcttcag 120
tagtctgaaa taacaagtga agaaatttgg aatcaaagaa acacaagagc taatcatata 180
atgatcttgg ttgggaatag aagactctta tcaaaaaagg gggaanaggt acattgtgct 240
ataaatitaa ccaatgatgt gtaacactga caaccctttt taattagtca ttgacatatc 300
aactagtgat tcaaggtata ttgtcctaaa atacacatcc tgttatattat ctgcatata 360
atgatgttag atttctgac gaaatctcta aaatactcct tttcacaggg cttatttgc 420
tcntgtgttc tttcntattt tgangaaan attctaatta cttttcnta attttaattc 480
natatgaatc cccccaaga naagg 505

<210> 9824

<211> 538

<212> DNA

<213> Homo sapiens

<400> 9824

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gccacaatgg tctagcctca tggccagaag catttttagcc aactcctggt ctgctccact 120
 ctcttccttc ttccgccgct ggggcctcac cacctcttcc tctcaatca cccggtctgc 180
 ttgaatcagg tcagcttcct ctgcgatctc taccagcgaa ctctcctcct ccccttcttc 240
 ctctcatcc ccttctgcct gggctgtatt ctgaggtcct gctggagaaa cactttgcgt 300
 gaaagaacga caccaagacc tagccactcc agcatcatgg aatgcttcca gtgctggaag 360
 caaatccatt cactatcctg cactgggtcca ttcatgagac tttcccagtg ctggagttag 420
 atgtacttct gcaggtactg ttcccgttaag anaccacgca tgggtgcactc caaggtcttg 480
 gtcctcataa accctggtct naancctcca ctntttntta aaaaccntt tggcctcn 538

<210> 9825

<211> 557

<212> DNA

<213> Homo sapiens

<400> 9825

aaaatcaaaa tgcttttatt atgggtcaaaa tcagagccat tgagtcctaa cagcttaaac 60
 tagatataga aagcaggga agtagtgtaa aacctccaca ttttctagc ccttcttcat 120
 atagcagttt gattatactt caatttggtg ttaagaggac aataatacaa agtaaagtgc 180
 cacaaaggac caaacacca aattttccat gtccaacaac tctctataat taatctacta 240
 tgtagctagt gtccagcca aatgttcagt tcttaacatt cgccaagaag gaatgggaag 300
 aaacagatga gtgacttcag ataggagta cactttctct tctagtctc catcgaacaa 360
 tctcactttt ttaacagaga atccccaca gctacatcca agttaagagc aaaatgctta 420
 cacaaaacca aaagacaaat tactgtaata ttatagttat catttctatt ccttaacata 480
 aataatcnaa aagtgactgt ntanantat taaatgcaat cntcctntt tctgcccgtt 540
 aaaaaatgcg ccttaac 557

<210> 9826

<211> 546

<212> DNA

<213> Homo sapiens

<400> 9826

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gtttggtaga naagagagtc ttgctttgtt tcccagactg gtctcaaact cctggcctca 60
agcaattggt ttacctcagc ttcccaaagt gtnaggatta caggcatgag ttaccatacc 120
cagcattttc ttaatccttt tccaattang aagcaaaggt ttaaacctct agtttgtaaa 180
agatggcaga gttaaggaa aagccatata acagaggtag tatgttactt ccanagcaaa 240
gttatttttc tctcaccac cccccaaca ttttactaca ataatttcca gacatacana 300
aaagttgaac aanttgaaca atgaacattc acatgcccac catctagttt ctataactaa 360
tattttgccg tatttgcttt atcagatata tatccaccta ataacgtaat ttttgatat 420
attacanagg gaagttacan acatcactta ngtttttaaa aaaactanaa aggcaattat 480
tttctgttat gttggctaag anaatttaaa ataattaatg antaacnttg tntccaagtt 540
ganatc 546

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<210> 9827

<211> 448

<212> DNA

<213> Homo sapiens

<400> 9827

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cactgcagga tttgtttatt tcacactcac ccttgaggcc cggcccgcgc ccgtgccctc 60
cctctccctg cgccggggcc gcggagctgc agagtccgca gaggggtgga ggcaagagag 120
gggggcagtg tgtccaggac cgagcgggtg gggcgtctgc agagggtgag agcagcgagt 180
ggcttcaggg cgcccaggac tgggtccgat gccatcacag ttcccaactc ggtaaagacc 240
cggggggcaa caatcccaa agaaggcact agcactcggg gcgcgcctgg acaccccccc 300
ccgttccctc tcagagcgct tacgtccacg gggacggggg agagaagtcg cccaatcacg 360
ccacgagcgt angcctccan ggatgcggct cgcgcgtgag cttgagggta tangtgcgca 420
ngcgcgggca ntgcgcgcgg aangcntc 448

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<210> 9828

<211> 481

<212> DNA

<213> Homo sapiens.

<400> 9828

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cactatTTTtg ggTTTTtatt ttgttgaNGt tggTTaaatc ttatctcttt ttttatacac 60
aatacttcat gtncctatga aataaaacag gtagggaata tgtccagtgc aaacaganga 120
ctcacacctg tncatagaca gcaccatcca ctgattgtcg ctgcagtcca cggcgttact 180
aagcctgcgc cacccacgtg ctgccccagn aggcgctacc aggctcttcg ggccacaggc 240
ctctctcca ctgcatgttg cggcagggcg ggttaggten canggtcca tnattgtggg 300
gcagcttcaa gggcacatgg ggcaaaagcc ctCnaangtc cctcctcagt anggggatgt 360
cattctgata atactgggat catgttgtan gtcccgtcc tgttgctgaa gaaaacanct 420
ctggatnacc ttcatnataa aatttgcaac ctCnccctca atcatnttgg ggntaaacct 480
t 481
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<210> 9829

<211> 534

<212> DNA

<213> Homo sapiens

<400> 9829

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gcccggccag aagTTTTtatt tccaaacccc aggaaagcat tacaataag anatagaaac 60
ccaaattaag ctctgaaaca actgggagac aggCctgcct aggtgatcag gancatccan 120
gcagcaggga tgggaagcag aaganatgca ttctggatag ggacctcacc ccagagcctc 180
agtctgtaca tacntgtgac tattcaggga ccgggagttg anaaccagaa accaccaat 240
cctagtgttg ccctgggttg gaggcagana aagcagcagc acgtgaggtc aaggacatta 300
ccaagtctga ccttggcatt tgttgctgc tctcatcccc aacagtccat aaataagtta 360
tccancacat ctCanggtg gangCggggg gaacaagcca actagccata ncctctggaa 420
```


aaaagggcag gccacctggc actggggcag actacacana atgcatctga ctctgcttc 480
cgncctctgcn aaactccccg gntnggcgtc caaattingt cccnccccg cctt 534

<210> 9830

<211> 537

<212> DNA

<213> Homo sapiens

<400> 9830

gcacataaaa acatcattta ttgttagaaa tcatgacatg atacaaagtc aaaatccact 60
tgtgtcttgc taaagactac agaaagccat gctcagcagc ttcttctcca atgctggcca 120
gcagcgtacc tttccaagtc acaaagcagt tcatcccgcc ctcaaggagc cgacagggca 180
gcccnanacc tcccactgac aagtgtggtc acccactcaa gatactggga aagatccctg 240
ttctagcatc acattttaat cagatttgct aaaatcaggt tgcttggggc aaaggctctt 300
tcaccgaggg atgctagtcc tggaanactt ctcttcggc gaanccgcca gctcaatctt 360
ctgaaccagg ctcatatccc agggatgggt ccaaaactga tgacggtgcc tgggcaactc 420
gctccccaca agggccatct cctgctctg tggatgttat ctgcanctg tggggggaaa 480
tcatattgan aaccnctccc cnccattgct gttcancccc aaaagntatt tnttttc 537

<210> 9831

<211> 548

<212> DNA

<213> Homo sapiens

<400> 9831

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caagctctgc ctctgggtt catgccattc tctgcctta gcctcctgag tagctgggac 120
tacaggcgcc cgccatcacg cccggctaatt tttttttgt atttttagta aanacggggt 180
ttcaccgtgt tagccaggat ggtctccatc tctgacctc gtgatccgcc cgcctaggcc 240

tcccaaagtg ctgggattac aggtgtgagc cactgcgccc ggccaaggga ggtgatgtta 300
 aactganaat cataaaaccc attaagaatt cataatcaca gcagaagcat atctatccat 360
 attctgtcct gagactgaaa tcattatata cacatataag ttaaggtatc aacaantttt 420
 aaaatatact attttattgg aagggaanan aataaccaan aaaaantgan gacctnaact 480
 gctcctccag gcntttttcc ttttggaaaa tttccctatn aagctggcct taattttccc 540
 ctttactt 548

<210> 9832

<211> 581

<212> DNA

<213> Homo sapiens

<400> 9832

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 cacggtgggg tattgggaaa atttccaatt ancaataatc gcgtctcgga taaatctcat 120
 tggctacggt actgccactg caaagctagc ttgacgtagg actttgatgg tcatgtntaa 180
 cacctcacag gggcagaacc tcttccatcc cgcactccaa agactcatgt natcagtacg 240
 caagaaagtt cananatgan acctctggtt gtattccacc tttgggacat gggggatgtc 300
 tttagttcaa agtcacaaat aaatgcaggt tctacaattc agangcttca tatccctgct 360
 ggagtattac atgtttattc aggatggacc acttttctta gcaacagttt ctaaaccctt 420
 gccangtctg ggaaatctgg gcaggaaaaa ttctaanaaa caatcatcct gcacacactt 480
 cctgaaaaan aatatacatt aatcccnat tatcccttcc caaggttttg ttggcccatt 540
 ccatanttcc accatctttt ttggnaaanc cccatttttt n 581

<210> 9833

<211> 462

<212> DNA

<213> Homo sapiens

<400> 9833

| | |
|---|-----|
| ggatcaggag tcttattctc tctttggaat gactcccaga acagccactt atgcccagaa | 60 |
| aatccatgat cccatctcct ccatgatgga ggaagctgag gaccagagag gggaagggag | 120 |
| tagactaagg gagtagccag tgcattcccag gagcaggaca gaattctctga cccctgaccc | 180 |
| ctagcccagt gctccttcca ccaccctgg ctgctccttc atggaccaat gaggtgacag | 240 |
| aggcagggcc tagttcacag gctgacaaga atctgcggat gtcctcagat gtcccacaag | 300 |
| gtctcctcct gcagacgccc aaccagacc ttgtctgctg caatatcact accagtgttt | 360 |
| gcagacctcc agagacagga gtctcaccac ctgcgaaggc agctactcca tcctgaccct | 420 |
| gtggaaggtg tgcaaatgtg ggggtgggtg gggacnnnnn nn | 462 |

<210> 9834

<211> 454

<212> DNA

<213> Homo sapiens

<400> 9834

| | |
|---|-----|
| gttgatatcg agttttattga tgagccattt accttcagat gccatactcc agtttttagct | 60 |
| tcgactatct cattctacaa aagttcacca tcttcaaaat ttaaaccatag acttaccatt | 120 |
| tgaccagcaa ttccacccaa gagaatcaaa aacatctatc cacacataaa tttgtacaca | 180 |
| aatgatcatg gtagcattat ttatcataga caaaaatgaa cagaacctag atgtccatca | 240 |
| gctgatgaat ggataaagaa acatggcata tcatacaatg gagtaatttc ggccataaaa | 300 |
| agaaatgaag tagtactgat acatgctata tcatgaatga accttgaaaa catgctaata | 360 |
| naangaagaa gcaganaggg ccacntattg tatgattcca ttacataaa attcccccat | 420 |
| ccntagagac agaaaacaga ttantgttta ncgc | 454 |

<210> 9835

<211> 374

<212> DNA

<213> Homo sapiens

<400> 9835

| | |
|--|-----|
| ggtaaangca ggatctcact ttgtgcttag ggtgggtattg aacttctggg ctaaaganat | 60 |
| actcctgact tagcctccca aagtgctagg attatagcag ggagctactg ctctgggtca | 120 |
| gcttttctgc taaaatgctt tgctgangtg gaaatganga nggtgaaaca ntgggcgggc | 180 |
| atttgtttta caaaggctct acctaggctg taccatctgg tgaagtgctt gtaactttta | 240 |
| aggtggaaac natgccattt ttcctttatt ctcccgctcg taagaccana aagcaattgg | 300 |
| angatcctcc aataccangg anaaaccang tttcaaaaaa aattttttng tnggaagggg | 360 |
| aatcaaacc aaac | 374 |

<210> 9836

<211> 558

<212> DNA

<213> Homo sapiens

<400> 9836

| | |
|---|-----|
| atggctatth tcttaatttt attcatgtaa ttaccaaagc tctgtattct actaaggtag | 60 |
| acatcttata ttgtatccat ggacgctcct tgatacatta tggatcatc cagcaagtaa | 120 |
| aaactaagca ggacaggcaa gaaagcaaca ctatgacagt aaaaacaata tggatttcac | 180 |
| ttttgtttcc tttaaagggg aaagtgttct taataattac tgttggtca cagaactaaa | 240 |
| gaaagtatat tagaacctca gtattcttaa caatgatctc tattggttgt tatttgtcta | 300 |
| agaagtgata agccatataa tttacagaaa gcaagtcact gaatccttca aaaaacacaa | 360 |
| cctggcaatg ttatcttcaa tgcaaaataa tgaagtggca ggancgtgat gaaaaaaca | 420 |
| gtcttcgaaa acatcatgtn agggaaccan ctgtgcttgt atagtctcta acttggtata | 480 |
| naaatcaaac aactccctgt gactgaattc cccaanaact tcccnagcn ccttgaatct | 540 |
| ccttgntccc ncccaant | 558 |

<210> 9837

<211> 418

<212> DNA

<213> Homo sapiens

<400> 9837

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aaggataagc aagcttttat tccgtcaaga gaacaaaggt caggactttt atcctgggtg 60
ggggatgggg agtccagatt ccttctctga tgaggcaaaa aaagaatcaa gactcctgtt 120
caagtaaagg gcagagggtg agagctagta ctcttattct agaaaggaag tagatacttt 180
tctttgataa aggaatgaac ggtagactcc tagtttgag aaaaggtggg aaagatgtga 240
cttgactttt ggtaaggaga tagggaagga attaaggcta ttactctgaa gaaagttggg 300
gggccagggc tcctatTTTT ttgctgagga gatggaagat cagggttgt attcaataag 360
aatgggaggg gccagggatg cctggcaaaa gccttgcaact gtgaggtgca gnnnnnnn 418

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<210> 9838

<211> 592

<212> DNA

<213> Homo sapiens

<400> 9838

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gtttctttnn nnetggagtt ggagtctcac tctgtcacc aggctggant gcagtgatgc 60
aatcttggct cactgcaacc tcagcctccc gggctcaagc aattctccta cctcaccctc 120
ccaagtaact gggactgcag gcacacacca ccatgcccg ctaattcttt gtattttagt 180
aanacaggg tttcaccccg ttgccaggc tggctcaaaa ctctgangt caggcaatcc 240
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ngttttcag tgatctgatt tcaantatga tgaaagttaa tggaatagga aattatgaaa 480
ctatactctc ntatatattt aaatgccatg cnaaatttta aatttcctaa ggaattattt 540
aatgatccca cntgattgcc aatccctaaa attaccgaat ttattcaaaa gt 592

```

<210> 9839

<211> 593

<212> DNA

<213> Homo sapiens

<400> 9839

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tgatacagaa agtcaaaaac cacatgttct cgtaagtggg agataaacia tgtgtacacc 120
tggacgtgga gagcagantc atagacacta gagccttcna aggtgggagt ggggtgagag 180
atgggaaagt atttactagg tacaatgtat actatttggg tgagggtata ctaagcccag 240
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aaaagttgct caaaaagat tggtagtcag aancatgaatt ctagatgtgc tttttcaact 360
atctcatttt gtaaatgtag tgtatgaatc ccaaattta acaatagaca atttttaaaa 420
taccactgc ccaaattaaa anaaaccgcc ttttaaatat cccatttttt ngccacttgg 480
gnccccacc tgaatttcca anggattatt ggttncncnc cccnttaat gtttggtcct 540
ttcccaagcc gccgaaacca aaaagtttcc ttttgannac actccganat ccc 593
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<210> 9840

<211> 593

<212> DNA

<213> Homo sapiens

<400> 9840

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agtgtgcag accactagtc actantctgg tgtctggctt aggtaaatat gtcttcttan 60
atattctctc atcagaacta cagataggat aatcaactca tcgagtttgc cagggnnttg 120
ctgggtgtag cactgaaagt ctacatgcc aggaaaacct catcttaggc aaactggagt 180
ggttgatcac acaacaaaag atgattcttt ttgactcaat cctggacctt ctcatctctc 240
tgcggtttta agtaccatct gtatggatgg ctggtgtatt ttgtttcctg ctttgacatt 300
tcttttaage tttggattca aaataagttt tgcaccttat ttttaatgcc tatcttatat 360
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tccttactgc ataaatcaga anaatctcaa tattaaataa tctaaatatac aaaacttcat 420
 ccactctgaa aaaacaattt cncctctgga tgctactatac tcattaaata accagccctt 480
 ccaaccaatt gctaaactcc aaaccctgga aaaaaggtn gggatttcct ccttatnccc 540
 tncaaaaatc catttncccn ctacaaangg ccttttanat ccaatatcca aat 593

<210> 9841

<211> 581

<212> DNA

<213> Homo sapiens

<400> 9841

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 aaagaaatac ataattgtta ttatgacagt ataagtgtcg ttgtcggtat ttaaagagta 180
 aaaaatgtatg caaaagtcct cctcccattt acaaaagatt gagaattttg tttttcctgg 240
 cagcaagtga aatattgaag tatcaatatt tttacaccct ttagatctga agacattaag 300
 ttagtcacag atttgttttg caattatgaa ttttaaaaca tttttgtgct atttcaagga 360
 tacactantt ctttcttaaa ggcagtagca taaaatgaat atggaaaaca gcagaactcn 420
 cnaaaatatt tgggtgtaca atccttttgt ttcatactga atatncctt aatcagggga 480
 gaaaacacta acaatttccc tataccttga cggatncaaa attactgtga tcagccatta 540
 ctgaagatca ccncttacc atccgccnt tgttttccga n 581

<210> 9842

<211> 588

<212> DNA

<213> Homo sapiens

<400> 9842

accaagtcca taattttatt atactctgaa tagagatgat atttaaggag cagagaaaat 60

gactatacna aagatttata gaacattcat ttacatactg gatataattct ttacagtatc 120
 agaaaagtaa aaatatgcac taacaaggca ganaanacgt tacaaggat ttgatgctga 180
 naataaatgc acagtgactt ttaacatggc tatagcttaa cactggagga atacaacaat 240
 acgttctttt actgagtant tagtaggacc ctggctataa catgcgttgg gcacagttcg 300
 tgaactctcc cgcatttact cccanggca gtacgtgcct gtccagcggg agccctggna 360
 aacaaaatgc ctgggaaaac nttccttttc ctgtggccct aaaaccggtg tccacgggtg 420
 gggggctctc tcacggtttc tgaaccaca gtacaatctg tngatnacac acaccttgtt 480
 ctgtttaatg cncatntttc ccaaaaggaa aaaaaaactt ccttccanc tctccaaaat 540
 cgtggaaact ttgcttcctt tggttcccca aaggactnct ncttnggg 588

<210> 9843

<211> 586

<212> DNA

<213> Homo sapiens

<400> 9843

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 gcccgganng tggctggctg gaaacaactc caacaggttt ttcccttccc cgctatgtac 120
 attatttatt ttgatccta ctactgtcc caagtccana ngcagttaca aaaaacactc 180
 ttgatgcaaa ccgtgagtgg ctacaacaca cggatggggg tgggcgcgat tcccacaaca 240
 gggagtggaa tccgggaaaa taatatatag gggcaanacn ccccttact tgctaaaant 300
 atatggaact caaaaccac aattgctttg tttgtttct canttcttg antatttta 360
 actacttgct cttaacatta attncgtatt ttccncaaa tatctgacct gatttaaac 420
 attttgttt gcatacatct tttgtnttg cccctatat tttccnct gatttngga 480
 taaaaattta atttctgcct aaaaaaaaaa cctttactc ttttaaaaa naacctccct 540
 tcccagenc tctntggtt ctttccaaa tntccacca tnttn 586

<210> 9844

<211> 579

<212> DNA

<213> Homo sapiens

<400> 9844

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agaaaactta tttttattct attatattga acacattgta tcacccccac tcatagctgc 60
actccaaaac agttcttctg ggaagcaggg ttttagtttt actgaacatg aataaaaaat 120
ccaggcagaa ttcaaaacca gggggaaaga gtcaaggaag caaacttgct tttcagaagc 180
aagatattta taaacagtaa tagctgagaa tcatataatt tgtttctgaa aattaccttt 240
taaatagggc ttcattttac atttgcatag tatatggaat tttgtaagaa gcattaaatt 300
tcaaataact tgatgcaata aataatcatg gaatactcat tgtccaaata taacagatag 360
agcatgtcca ctaagantaa tgttatttct cttaaaataa aggggaaaat ctaagttcct 420
tgaagcanaa actgtgttgt tgactatggc agtcccgtgc ctaccatgat acctgaaatg 480
antcncacca acantgactt ttgaaaaaga ataaagaagg attgaagacc aattttttaa 540
ccntncntgg taggaatttn ggcggtacaa taaaacaac 579

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<210> 9845

<211> 583

<212> DNA

<213> Homo sapiens

<400> 9845

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ggaggtaaaa gtgagtttat cttatgctca gcaaaacata tttaggtcag tttaaataatg 60
agcaactggt aaatttatcc tcagctagca tanangtggg cattgttaat acnattcaaa 120
gcttggttgg gcactcttcg ttttatagta tgcctgggat acagcacatc tgtgagacaa 180
gaaaggctaa actagagctc tgcttcttct aatcctgcat tacaaattta ataataaagt 240
acatttctgc tatgtttgtg gttttaaaat tattcactgt aaacatccta tattctttcc 300
taattaattt cagagctgga acttataatc atgtctatgt caaattatca tttattctat 360
gaaaagcagc acgaatactc ttcattctgg ttttgacaca aattccttaa aaaaaaatta 420
aggccattta attgaatcag ggccactgaa nattaacctg gcaaaagtca actactgatt 480

```

taanaatttt gaaaaaaaac caaagttggt gtctgtttt tctccctggt acttgaaaac 540
attgttaaatt tattatctcc actctctct cnattncata anc 583

<210> 9846

<211> 586

<212> DNA

<213> Homo sapiens

<400> 9846

acaaccgtat gaaagaaatt tataatccac aaaacttttt caggtcttaa ggtaaaatan 60
ttccacagtc tacaggtaaa accaaggnaa caaaaatgcg tgcttatctt gattaagtaa 120
gtaattttat gcagaagatg tnacactttg tttgtanaca gcatggatg catttctcag 180
caagacataa ggaaaacaag attccnaaag atccattgta aggaatggag attcttgtac 240
aatcatatct agcagtaaat aaacagattc tctatttctt gttgtagttt tatctgtctc 300
ctggccaatt ttcagtagac tggaggatgc aagcgccaga aattctttaa gacggctctc 360
aatgcttcct ttgtgaattg taaacaaagc tgcancaatc tggttgatgg ctttggccaa 420
ncaatgtntg ttgttgcaat gcccttctat ancagggctg ttctganact cccattactg 480
gccantgttn gcaaaaaact gcccccaacc cntgaaaaa ggcggcantt tatcccctcc 540
tcnggaaaat tttcccaatt ttgttaaaaa aaaccccaac ctcccg 586

<210> 9847

<211> 490

<212> DNA

<213> Homo sapiens

<400> 9847

ctctaattctt gacgtcacac tttatgtcat taagttgatc ttcaatctct gatatacttt 60
cttctgcttg atcgattcag ctattgatac ttctgtatgc ttcacgaaag tctcgtgctg 120
tgtttttcag ctccatcaga tcatttatgt tcttctctaa agtggttatt ctagttagca 180

| | |
|--|-----|
| attcctccag ccttttttca tttttagctt ccttgcatg ggtagaaca tgctccttta | 240 |
| gctcanagga gtttggtatt acccaccttc tgaagcctcc ttctgtaaact tegtcaaact | 300 |
| cattctccat ccagttttgt tctcttgctg gcaangaatt gtnatccttt gcaagaaaaa | 360 |
| <hr/> | |
| aaggnttcct ggttttggaa atttcnacc ttttggcann ggttttcccc cccctccatg | 420 |
| gaattaatct accttnggtc tttaatgccg ggtgaacctc ccgaatgggg tttngttttg | 480 |
| naaattccnn | 490 |

<210> 9848

<211> 310

<212> DNA

<213> Homo sapiens

<400> 9848

| | |
|---|-----|
| gaagatatta aaattcaggt tttattattt gttcagttat aataatttaa gttaatattt | 60 |
| gctgtattct cagagcaaan atgtatttct gtaccactgt cctgtataaa tttgttacct | 120 |
| aagatagtga ctggtatgaa aggagaggga agagggtgac agatggaaac gattgctgta | 180 |
| ggacagtcca tctggccaga tgcggtgggg gaggggagaa aaantgggag ananatggtc | 240 |
| ctacanatgc tccntgggt aaatgatggg tgcacccctc cctgcantcn ggctgtgcct | 300 |
| gtacttcaca | 310 |

<210> 9849

<211> 543

<212> DNA

<213> Homo sapiens

<400> 9849

| | |
|---|-----|
| cagagcatgt agcaaattta ttatccgtgg gtgagaaact gttacatgaa gacacacagc | 60 |
| aggggaaaga antcagcatt taacagataa tctgtgcttc tcagacaggg gaaaaataaa | 120 |
| aacactgtgc tgcattataa acagganang gaagaatcca gtgaanaacc cttaaagtga | 180 |

| | |
|--|-----|
| atgtcgtcag ctaacatagg catctcatcc aaagaagact tcaacagagc agttgtttga | 240 |
| gttttcaatc atcagtattc tgagaacttc aagtgtgtat tattagtgtc aatgctatcc | 300 |
| atgttccttc tctattttct atgatacgag gaaatcacat gaagctgcct taagtgggtga | 360 |
| <hr/> | |
| aaataaatgg attctatttt tgcagtattc ctgcagtctt ttaaatcaca cacgaatact | 420 |
| gctcccaaaa ttatcatcan cttctgcctc anaccttcac gaaataactg aaacaatgtg | 480 |
| gggtgtctnt taaaaaacga atggctaacn tcccccentt caatntttcn cccccctttt | 540 |
| cna | 543 |

<210> 9850

<211> 530

<212> DNA

<213> Homo sapiens

<400> 9850

| | |
|---|-----|
| cccaaggga gtttaatacct ttactaagtt acaaaacttg ggcaaatcaa tacagtactc | 60 |
| ttttataatg aaaccatact ttgtttggan tcatgttact ttantganaa ttttcacncc | 120 |
| aaaaatattt aantnccaaa tcaaaacact ggtttttaat ggtggtttat ancataataa | 180 |
| ggtattttgc acaaaatata ttttaaaact acacaatttc tccttttaag tganctccct | 240 |
| tgtgcaagct gctgaantgt acagcaacag ggcaatgggc gtctatagga ggtggctctg | 300 |
| ctctgttctg gggttgggtc aaagtcaggt gganttccaa tgtatgaaaa gcttgaaaaa | 360 |
| tctaccttaa gganactgaa tatcaatacc agtttccaag gantttctgt tgaaattttc | 420 |
| acanaaatac tggaaccct caaaatcaaa tantaatttc aaacaacatt aattccaaat | 480 |
| aatcctttta tttaaaagnc cncncntnt tttaatnaat tccanaccct | 530 |

<210> 9851

<211> 493

<212> DNA

<213> Homo sapiens

<400> 9851

| | |
|---|-----|
| aatgtggaga aatTTTTatt actttgaatg ttttagaatg caggtagaan agacccggag | 60 |
| ctcaaatagc ttaaataagt aggaaatcta ttggctaata caactggaaa tgcggagata | 120 |
| gggcaggctg cagggctggt ggctcagggc tcagggggcc ccaactctct gtgctgctct | 180 |
| gaggcactgc cttcaatctc aggttggcag cacaaagctg ctganagtcc cagtgtcacg | 240 |
| cccanacccc acaatgccag ggaaggaaga caggttctat ctaanganaa atcttccatc | 300 |
| cccacctctg cggactttta ctcaattctc agggacctgc ttgggatctc aggcccatnc | 360 |
| ctnaaccatt tnttggcaaa caaantgaaa tattttttac accaggcagg cacccttggg | 420 |
| ttgnaagcac ccacctccaa ttctttcagg aaaaaaggga aantgggaac tncncaaaca | 480 |
| ncaaccaccn tnc | 493 |

<210> 9852

<211> 597

<212> DNA

<213> Homo sapiens

<400> 9852

| | |
|---|-----|
| acacaatata tgattttatt aataaatagt gcaaaagcat cagtataac tgtttgaaca | 60 |
| ttaaattttt taaacagcca tgtcttggca ttagttaata ttgtgcatat tggcctctat | 120 |
| ggcactacaa gtaaacagat gaaaatattg ccattttca tgcacaggta ttcagctata | 180 |
| acaccattta caaatcatta tgaacaagat aaattctgca ataattttca tttggatggc | 240 |
| cacaattaaa tgagtgttat atcaagaaat agcctatgtt caatatactc cagatgtcag | 300 |
| attgtaaaat gtaatgttat ttaaaactta attctttatt ttccttaaag ggacaccttt | 360 |
| tgtgtatttg ggtactcaaa tgaaaactta ggaatgcatt ctttgaccat aataacaaaa | 420 |
| ttcacacaaa agaagttgta tgcttctctc tctaaaagaa ncaatacatt tgctcataat | 480 |
| ctctctctcc aggtacattt ctcatattat taatgaaaat gcctacnaac accaacacca | 540 |
| aaattctgtc ttccaggga aggttncaat ttaaaaaanat tggtcntnt ttnaaaa | 597 |

<210> 9853

<211> 582

<212> DNA

<213> Homo sapiens

<400> 9853

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ccaattctta ttttattaaa aaaaatggaa ataaagttta aaaaatcaat caacatggcc 60
tttaatttta acaattttta cagcaagtgg tggggggagt tctcaaatga ncaactggag 120
ctggaagcac ttctgtggtc aagcaggcag cccatggggg tgcattctcc tgttggggga 180
tcatccattt tcttcaatga atagttttta gtcttgtcaa atgctcacac agaggccccgc 240
tattaaggag gcanacaggc aacattcaat acgaaggcag gacaagctca gccccgctcc 300
ttcattcggg catgtgtcat tagggatgac attctctgaa ggctgcccgg cttgaatggc 360
caaatccctg catcatggct ttctttaatt cctctgctc ccaactcaca aaatgangac 420
ctctctttta aaacaaaaag cactgttctc aaaggtatac atttgaact tccaataatg 480
aaaacatctc ttgcttggca ggtggaatat agcaattttg gatttttaat catgcatggg 540
gcggaattaa atttcttcca gggtnnttn cctaaaatng ga 582
    
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<210> 9854

<211> 547

<212> DNA

<213> Homo sapiens

<400> 9854

```

ctttctcttt ccttttttct ttgtcatttt cttaacagc tttgttgctg ttagagccac 60
tatttccatt gcttgaattc cctttaggtg tggtactaga agctttatta acagctttca 120
caccacactg agatctctcc cttgatttat cagtctcctc agtactgctt tcatccgatt 180
tagatgcact tcctattgat gatgaanaag gccaccacc aggcccattt tgcacactgg 240
caactgcatt cctcggaggg gggcttttgt gatgaaactc attttcaggt atcatgtatg 300
actttctact tttcaactgc ccagagtagc ccatagccaa tgcatataga tctggcctct 360
tctcttttct ttcttggcag attttgtgta ctcttcttct caaagcttga cccagattca 420
    
```

aaacttttgg gtaccaagga agtatttttg ttanacacat caagatatcc tgatgtnagt 480
atattcccct gttccangn aatgttncga agccttggtt agtttggtat gccattatnt 540
tcnecat 547

<210> 9855

<211> 580

<212> DNA

<213> Homo sapiens

<400> 9855

gcatttaaatt tttcaaatag tggcaatatt tcactttcca ggtataatta ttttctttta 60
aaaatgccac taatanatac atgtcattac acatttggtt aaatccacag aatgtncaac 120
actgagagtg taaactgtgg actttgggtg ataatgagac attgatgtag gttcatcgat 180
tgtaacaaat acaccactgt ggcgtaagat gtcaatagtg ggggcactct gtactttctg 240
ctcaattttg ttctgaacct aagactgctc taaaatacaa agtctattaa ataaataaat 300
aaaatggaaa aacagtaata acaaatgccc ctigaaacca tttttccaaa aataatttgt 360
gtcatcttgc ctgaagaaaa agaatatgta aaaaataatt tctaaaattc tgtttcttta 420
taccaaaatc acgggacctt gaatatctta acaagtccta attattgctg aagaacagga 480
atcactactc cgaaanatgt nacaagaac ccctccctac catattaacc cgcccccccc 540
ccaaaaaana ttttccttnt ttengggaan cnggaaaccc 580

<210> 9856

<211> 473

<212> DNA

<213> Homo sapiens

<400> 9856

ganacaaggt atcactttgc tgcacaggtt gaantacagt ggtacagtca tggctcactg 60
tagccttcac aaaccagtc atttggactc ctaggttcag gcaatcctcc tgcctcagcc 120

| | |
|---|-----|
| tccaaaatan ctgggactat aggcattgctt caccatgcct ggctaatttt tttttttta | 180 |
| aatagggaca tgatcatgct atgttgacca ggcaggcttg gaactcctag gctcaagcaa | 240 |
| tcttcccact ttagcctccc aaaatgctgg gatcacaggc ttgaatcact gtgcccagcg | 300 |
| <hr/> | |
| ganaccttct gttttctcag ttaancangg aaagtgtntn aaaggtgaaa tgcangtttt | 360 |
| caactgtcat ctgaaaaaat caaaancaaa tctgctaaaa aaacatacaa aaatgggtag | 420 |
| gcctatttaa atggctattt aaattttttg tnanaaatth caattntntn can | 473 |

<210> 9857

<211> 470

<212> DNA

<213> Homo sapiens

<400> 9857

| | |
|--|-----|
| atgaatgaag agtgtgctat gcaaatgagg gcgattcaca aaaagagaca gaacatggct | 60 |
| gccacttctg cttctacact gcactgacac tgcagcaatg tacctccttc tacacccgct | 120 |
| cagcaaaagc gtgtgttttg ggggtggggag ggagtaaggg aggaggaaat gttgtttggc | 180 |
| ctttctctan ctattttacg ttaaacagga ctcggtacag actttaaaaa gttatttcaa | 240 |
| aaaggtctga ctttagtaat gcactgtatt taaaggaatg catccaaatg actaagtcct | 300 |
| aactcactta actctttcca accctccgaa nataaacaaa agttgaactt aattacaana | 360 |
| aaacggatgc taatattctg cttggaatta aatcccttct caatanaaaa gtgttgccna | 420 |
| ccattatttc tccccgcanc tgtcncntta aagcaaaacn tttaaaanac | 470 |

<210> 9858

<211> 575

<212> DNA

<213> Homo sapiens

<400> 9858

| | |
|---|----|
| agancatttt aatcagtttt attgattcat gcttccagtt cttattcagt taaaaacaag | 60 |
|---|----|

ggnacattaa atacatcctc ttattgctct ataaatgcat gcagctcatt ctgtgtatca 120
 aaagtaataa ataatggcca taaaacacca agacagttat aaaaatgaca acccagcctc 180
 aaacatagta tttacagtc cagtctagaa caataaccca acatgataca taaaagtgcc 240
 acatatgaaa acatgcggtg tgtatatcca ctctagcact gagcttacac ttgctattta 300
 aaaacatagt agggcttttt cactccttca aaaagggtga catgatgcaa acatcgcaag 360
 ttatagcatc attgacttta atattacatt catatgccaa aaatctttac agatacataa 420
 gaanaaaaaat aacatcaatg atgaccctac agtatattta gtaaaagtga naatgaattt 480
 ttttgttgtt caaanaaga anctactttt ttgaaacaga caagccaanc cgaaactgaa 540
 nccganaaaa acatgctttt ataccaaaan cnaaa 575

<210> 9859

<211> 595

<212> DNA

<213> Homo sapiens

<400> 9859

gttgccatgt ttttccagg gttccccgc cccgttctca gagctgcag tggatgcagt 60
 cactacacca ctcccgggct tgtaaccat cacagcctgg actcctttgg tcaaagccct 120
 cacattctct tgatggaaaa aagttttgtc aacgatattt tcaatctgct ttgctttttt 180
 atttctgcct agctgcattt ttatttcac actgttcatt ttgttctcta ggantcgctg 240
 gtgttgatgc tgaaaagtta caggatctct tccagganga ggatggcagt acagcagctt 300
 accactgaca tantccttca ggatgtancg cgcanatcga ngctggtctg gctgtccatg 360
 cgctgtcatg aatcctcgca tgtatccata agctgtcaac agttcttccg atnttgaag 420
 tcgggtgggga tcttcatcct ctctangcgt tatgatgta atgccataag tacttctaaa 480
 acatgtcttg gaatattctg gcaactaatg atacaggaag aacataatct ctctctgaa 540
 tcaattggga agaatcccc tgccaattcn ttcttncctn ggtaaaaaan aaaa 595

<210> 9860

<211> 583

<212> DNA

<213> Homo sapiens

<400> 9860

attttttttt tttttttttt tttttttgca nacgaagttt caaccttttt attcaaagca 60
 gcttctcaca atgtataaat actgcatatt agcacacatg aaaaatacaa cttctaaggn 120
 acccanaaat gtgttcatac acgttacagg accattcaca aananagtgt acaatttgct 180
 ctaaacagtc aggatttgat aaatcanaaa attattatcc ctcagtactg caccagctct 240
 cagtaaatat ttacaacatg gtganaaggg gtcagctgta cttcttttat aattctatga 300
 agtactcana cttacaaata ttcagaacta gttaaanact ctcccntgat aatctggcaa 360
 aataaaacaa gtancctaata tttgcaaagg tctcggtgga ttttggtgtn tgctacatcc 420
 atgatcaaat ccaaacactc ctanggtggg ctggataant ttttggtagc ctgcttcatt 480
 atcggaattt ggtaataanc cttaccaaca aaatacanct cttcacatca tcattctcac 540
 tggatcatgga tcatgatccc cctgaatgaa aatggaaaaa aat 583

<210> 9861

<211> 589

<212> DNA

<213> Homo sapiens

<400> 9861

acataaatatg ttattttattt gatattctgg agaagtccaa acacacaaag tgattctgta 60
 tttgcgagaa atttaaggag atgatgaaaa tgggttaaaaa atagatttaa aagggtgatg 120
 aaagtattat gtataatatt ataatggtaa atatgtgata tgaatttggt gaaatcaaca 180
 gaatatacag cataaagggt taattccaat tcacaaaaat ataaataaat aggagattag 240
 gaattccagg atagaatgca gacaatatag aaaatatcta atgtcattac aaatgtatga 300
 aatcagaana ngtgccaaagt gacctcagaa atagtgtagt caataaaaga ataaagaaag 360
 tgcacgtcag aactgtaccc cagctgatga tgttcctcca aagagcaaaa catacacaat 420
 ctgggtccac tctacagaaa tcctggaact ggactacaaa gggaataaac agggttgtgg 480

cnggaagggg gtcncnccg ttggattgca aggttaggga caggaataaa aggccggtat 540
taacattccn ttggtnttac agggcgaatt ttcatatntt gcaanttta 589

<210> 9862

<211> 591

<212> DNA

<213> Homo sapiens

<400> 9862

ggtttaaata atccatttgt attgggtcct agtaagaata ctactactag taactattat 60
caagcaacta ctgtgtcatg tacttttcac acattctttt aattaaaaac tctccactaa 120
cccttacagt tcagtattat ccttggttta cagatgaaga aaagccaaag agaagttata 180
taactggcaa gtttctctgg ctccccgcct gcaccactgc tcgccagatt gcatgaagag 240
ggaggcagct gtaacacctc atcccgttga tctccangga actcanatac ttgtttccac 300
gtccaggaaa ccgcaaacta agctctttga ancatcagca aancttgcta antgacacgt 360
gaaatgccat tggatacata ttctaattct tcaggtataa aggacagtca nactgcctca 420
tctgttcac ccaaggatct ganaacanac attcctccag tnttgaacat ccacatcctt 480
atnggaaaat ggtccaaaaa aanaatggcc ccnntttaaa aaanattttt ttagggccga 540
atntttttta aactaatttt cccaaaattt tttancnttt ttatgcccc c 591

<210> 9863

<211> 524

<212> DNA

<213> Homo sapiens

<400> 9863

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caagtagcag tttgaattat aatgacaatt ctttaggatt ttatgtagct tgcatattta 120
acatttaaat atattgttct aggaattggn tgataaaact agaaaataaa gagaaattat 180

gatcaccatg tgttcactct tcagactttg atctatgaat cagctcactg agagagatac 240
 ttgaaaactt ctcttggttt cttctaattcc atctttggaa tgtcctccac ggatggatgc 300
 cttgcagttg aaacataaat gctataaaaa ttaatcccc tagcactacc gctgttgcca 360

cggcaataaa cgtgtgtcct ggggaatggc aatgggtgcct catcaacata aatctgaaat 420
 tctcaattaa gttacaaaaa nttctcctga aatgacggnc cctctaaant ggaaaagtgc 480
 aaanccttta tgcttaantt ganacctgaa ggattatacc tgcn 524

<210> 9864

<211> 519

<212> DNA

<213> Homo sapiens

<400> 9864

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 atggggtttt gtttttgtaa actttcaatt accttccctt ccctgaccct gccaggtatt 120
 catctcctgc ccagatccca ggggtggcctt cctgaaatga acgctccatc tgaattttct 180
 tctccccctgt ctctcaagan aatgcccagg ctcttaacca tgtctcanac tgccctgcac 240
 ctcagcctct gtctctgcac ccccaggcat gttcaacctc ttgcaattct tgcattcccc 300
 atagttcatg acccaacctt tgcccccta ccagctgggc ctggaatacc ccccaggctc 360
 gtttgtgaac ctcangagta ttcatgttcc aaagtcgcan cactctggaa ccgcctcccc 420
 aagctgctgt gggctcttgc tgggtcccc naatgttcaa gtctgtctcc cccangggcc 480
 caatnccact ccanaatntg ttttctcccc ccannacta 519

<210> 9865

<211> 433

<212> DNA

<213> Homo sapiens

<400> 9865

aggttttagc agcactttta ctccacatc caaactccct gggtccctcac aacagccctg 60
 tgaggtaggt agggtaggaa ggtttcagag atccccattt atagatgagg atgctgaggc 120
 acagagaggt gaagtgactt gtccaaggctc atacaaccag cagtgtagag ggctcaaagc 180
 cagcattcct ccacttgaac tcctgcgctc cggccctctg gcagttccca catcctctct 240
 attctctctg tgtccccac cctctcaact ctctgggtc tacagggacc ctaaaggcag 300
 cctggcagct gagatttttc aggaatggca actggggtag gcctgggtcaa ctccagatag 360
 gagctgancc tgaagagcat ggggccagct ttgcttctcc ccattcccat tgggatgaag 420
 ggcctatnnn nnn 433

<210> 9866

<211> 532

<212> DNA

<213> Homo sapiens

<400> 9866

gtagttcaga anccaaccct tatatttatta aaatgtgtnc aananatggg gaaagaaaag 60
 gaccanactg tactgtggcc atgtncacaa aggcatgcac cacatcccag ctctgctgcc 120
 ctgggctgtc ccacaggcag ctctctanaa cttgagagcc tcaaaagggg cctcatgaag 180
 cccaaatctt ccctggtcag ctgatggcat tcgtataact gaaagtggg gaagaccacc 240
 angtcngtgg agtggagagg tttgtatat ggtcttcttt gaaaaaactt acttcttgca 300
 agccctggca tcttccaatt ggctgtccta gtaatggacg cggcacacgc ctaccaacaa 360
 tggangtcta ctccccctc nctgaatttt gttcctgaaa tcanaaaccc cggcccaccc 420
 aattccacag gccaatccac ntccaggccn cccttgntcc ccccantgaa ccccttten 480
 acggattttc ggaaaccctc ctccnggaat ttcttnaacc ttggtccctt cc 532

<210> 9867

<211> 576

<212> DNA

<213> Homo sapiens

<400> 9867

| | |
|--|-----|
| aagaaaagaa caacaataat aaatctttat tgagattttt taacaaaata atttttgaaa | 60 |
| acaaaagctc ccacatgtaa acaagaacgt aaataagtta gatggcatta ttatgtacat | 120 |
| tcaagaatca aaacatgttc tggtaaacad tccataatcc ggtaaaatgt tttcacccat | 180 |
| cactgttaag agaaactgtg tatttaatac tatcaataac aaaacctaata ctttgaacat | 240 |
| tataaaatgg tttacggaat ataaactata cagtttagtt tttcattcct cctagcaatc | 300 |
| cgtgtcacat gtatactagt cctaagangt attttgtcag tattagccca aaangtcccc | 360 |
| caccccaaata naaccagttt acacatatct cccccagttt taagggtggg gatgtgttga | 420 |
| aacccatata ttacaacatc ctttttccaa actaacctaa tcctaattcc tatectacta | 480 |
| atccggggng cccccattta tctcccgtct acccttcctt naaatccnng gngggttccc | 540 |
| cttaaaaaat ccgccgatcc cntttaana taattt | 576 |

<210> 9868

<211> 505

<212> DNA

<213> Homo sapiens

<400> 9868

| | |
|---|-----|
| gacggagtct gtctctgtcg cccaggatgg agtacagtgg cacaatctca gctcactgca | 60 |
| atctctgcct cccaggttca agcaattctc ctgccttagc ctcccaagta gctgggatta | 120 |
| caggtgcctg ccaccacgcc tggctaattt ttgtattttt ggtagagacg gggtttcacc | 180 |
| atgttgccca ggctggtctt gaactcctga cctcaagtga tccaccccca cccccattgg | 240 |
| cttcccagan ttctgggatt acaggcgtga atcaccgcgc ccagcccaaa tcgccgaaat | 300 |
| ctttatctcc taccttgatc tctgtagcag aaaagaacag tatanatata aattgtcatc | 360 |
| aacagatgca acatatcttg tnaatcaata tattttcaag tgaggctctc gaatcacctg | 420 |
| cactgaaatc atctgtgatg cttatcaagc atgcagatct caggancntc nctganttcn | 480 |
| taaatctcnt ctctggangt taaaa | 505 |

<210> 9869

<211> 596

<212> DNA

<213> Homo sapiens

<400> 9869

```

caaaggcaaa taaaataagt ttattgggat gtaaccccat cataaattga ggagcatcca   60
tacggggcaa gctataaaat ctggaaaatt taaatcaaat taaattctgc ttttaaaaag  120
gtgccttaag ttaaccaagc attttgataa cacattcaaa tttaatatat aaaaatagat  180
gtatcctgga agatataatg aagaacatac catgtgtata aattcagaat acgcttttta  240
caciaaagac tacaaaaagt tacaaagaca gccttcagga accacactta ggaaaagtga  300
gccgagcagc cttcacgcaa agcctccttc aaagaagtct cacaaagact ccagaaccag  360
ccgagtccgt cctcggggct ccgtgttact ttcaacacac cgtggacagg ggangaatg  420
ggttctgctt gctgaccacc ancttctgat gctgatgcga tatgttncct ttgacgtgtc  480
catgtttatc cagtttagccn gaatactga acttntcca tttcncgtcc cccccgctn  540
aaattccagg ggnncccaaa aactcccaaa aacctnggt ttttccctt acaatt   596

```

<210> 9870

<211> 579

<212> DNA

<213> Homo sapiens

<400> 9870

```

aacaataaaa attctttatt taaatttctc ttgtggggaa aatatttttc tttaaagcac   60
acttaaaagt aatttgcatt tacttcctgt aaagcatttc catttcacaa ttagcaaaac  120
taaaaggcta tgtctcttca tgcatttatt tttgttagaa aaatgtccca tgggtctatc  180
aaaccgattt taaccatcat caagcttaac ttgcctctg ttgacaacat gactacaaac  240
atgaatcaaa aaggagttaa ggaattttaa gccataaggt ttcaattata gcttaccaat  300
tatgtaatta gctgacaaaa atcaagtctg atgtagaata gctgtcatct acttaactgc  360

```

agataatcat ggcattttca ttttaagatga tctgaactta tgaaataaag gatccagtcc 420
 caagaactca ataattctctt atgttttctt ttgnaagact tatttcaaatt attaactatt 480
 tcggtgcctg aatggaaaaa tataaacatt aactcnaaaa naatgttgta ccggtttgga 540
 atccactngn actttaaccn cngtgnaaaa accgaaagg 579

<210> 9871

<211> 594

<212> DNA

<213> Homo sapiens

<400> 9871

ctgtgttaca acaaagcagt ttatttgtga tcagtgttg agactctata catccttcac 60
 aaatttaatt ttacataatc tgatacgtct cttaaaactt aaactttgaa ctgctagact 120
 tttatttccc tanaacagaa gggctggtat aagttatttt ccagaaatga ggtaccgttt 180
 tcacagaact ggtttctttt ttttttttca agttttanan aactaaattt gcatttggtta 240
 aaatcaaaaa gtaggaaaga gtctctttac aaataatttt gatcaagtat gtgttcaaag 300
 aaagcaggat aaaaaggctt tttctctaac attctgtgtt gtactgtatt gttgttcaat 360
 aggaattanc ttctgtcatt tgctaaaaaa atgantattg gggaacagga tatgttgga 420
 atttcataac gggtaacaga accattctct tgggtaaacc ataagcangg gcanctgtgc 480
 tgtaaccata tgggttttcc ataccctgna actatttncc agaacaactg tccccacaa 540
 aannccccct gttnaaattc ccccccccg ccccaaaact ngnatggtgc aaan 594

<210> 9872

<211> 479

<212> DNA

<213> Homo sapiens

<400> 9872

caaggngat atttctgga cttgaataaa gtgtttttgg tttgtattct cattccatca 60

gtagtatgac ttagggcaag agccaactcc tttatgcttc attttttta atctaataga 120
 tcaaggaaat ggaaaccggc tcaatagggtt gtttaaagct taananatgt gtgaatgcac 180
 ctagcaccta ctanacacaa caatgagcct gcatttccgc aagtaagcca ttcctacctc 240
 cttaccccc attccaatta atgtttgtct ataanaatat tttaaaattc aagagccaat 300
 gtaaaactct gtaaataatta tcttgctatt tatagagacn accacaaaag tttgcaatga 360
 tgcanatgac atccataatg agtctcttaa atgaagggtt ggcaangcaat acaggtcttt 420
 tgaataaaaa tntccccagg aaaaatactt gcaantcnag cccccaacc atcanntnt 479

<210> 9873

<211> 551

<212> DNA

<213> Homo sapiens

<400> 9873

ccacaaggga atatcatttt attactgtaa tcacaaaatc gtaatttctg tacaggaatg 60
 tataagttaa cattattcaa agcattggta atncaactnca taaanagggt aaacatacta 120
 canaacatat tgtaanaaaa aaatattgta aaatttncgt gtcttgcagt gcactattta 180
 gtgcaagtat ttaaaacaca atagtgttca attcancaaa gtattgcaaa atgtcatgcc 240
 acagtccact taattcaaaa agggtcagga catgcacctt gtaataaaat gtcaaaatgt 300
 gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt anaaaaaacc acatgtaatt cataaaatat 360
 atagtgggtt atttaaattg ttttaaattg atttcctgt ggaatccacc ataactggaa 420
 cacatccag ggtctcctta acggcaacaa acctatgct aaggcaatgg ctttgggctc 480
 cgggttagaa atccncccca ttttttnac ccccttngt tntntttgaa acaatgaanc 540
 caatttctna a 551

<210> 9874

<211> 530

<212> DNA

<213> Homo sapiens

<400> 9874

| | |
|---|-----|
| gggaaaaatg taattttattt gcactgcttc cattcttcta ctgtagtggtt aggacttaac | 60 |
| ataagcatca ctcttctatt tcctatttac attcttttgg aatattactg caaatacaat | 120 |
| atacaattta aaaaaactta tggggaaaca cagcttatgt tttttctcc tctttacagg | 180 |
| cttctcagta tcattcgact tcaatggaaa tttatatgga ctttttctgt acatatctta | 240 |
| aaaggcagan attacactga taaagcctaa agaatcctgc acaaatacaa tacagaaaac | 300 |
| agaaagtaca gaacnatggtt atttggggta caaatataaa caatacagta ccatttgagt | 360 |
| nactgagcaa cataataccc atactttata gaaataaaaac tgcaaacctg gagaatgctc | 420 |
| tgacaaatat taaacattat atacncnatg aggtaaatgt tccttggtct cttganaagt | 480 |
| tatttaagtt ttaanccatt gacttttgaa acntctccct tacntttnaa | 530 |

<210> 9875

<211> 475

<212> DNA

<213> Homo sapiens

<400> 9875

| | |
|---|-----|
| antttaaaaa caacaagcat cctttattct ccttccaatc tcagtgtcca aaagctacgg | 60 |
| ttaacangtt tttnaagtgc aaatcatttc attcctcnaa agccanangg gaataaaaac | 120 |
| tgtacatcat ctccaatcca tattcatcag gancgccctg gggtttgtca tcctgctggc | 180 |
| acggggccag gtttcanggc ctggcgga aaagtctgta ngctttggga cttggtgtct | 240 |
| ggccccntga natnanatta gttctccnat aacctgaatg cctcttgggg aggcggcagc | 300 |
| acgcaggcgt ataatccctc tagacancca gatcgggcgt gggtggantt taaaccccac | 360 |
| gatgttctaa cagccacaat naaaactggg ggttngaagt tanaacctct naacnagaat | 420 |
| tgggatttnc ccaagggaat aaggggggtt aaataatcca aaaggcccna ccatt | 475 |

<210> 9876

<211> 471

<212> DNA

<213> Homo sapiens

<400> 9876

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acattttaaa gacattttta ttgagctaatt tttacaaca ttgcttttagc tggtagacagc 60
tgccccaac caaaacaaag ccatcatgaa tgctattcaa catcctcaat gtaatccagt 120
atgtttttgt acttggaata tagttaaaact tttgacatta cataatcaag caaatagcag 180
tgcatactat attattcaaa aagactttat ctatttcatt taaaaaatca agttgcaagt 240
ggcctcagct ttatcaacaa tcgtagtgac acattccaca cticcatgctc tcaaaaataaa 300
aagtgcccta aaactaactc taagtttttt agtcactgac attaatacta accagggttac 360
aggaattgaa gttaacatt gtacaatata agcggcaata agttactgat atctgctgac 420
aaattccnch ccaactaaat atatcctgan acntncaaaa ananatttgg t 471
```

<210> 9877

<211> 560

<212> DNA

<213> Homo sapiens

<400> 9877

```
cacagaacat acttaatttt ttattttgaa attccctatt cctctatac aagaaacttt 60
gctgaaacag ttccacaaa ggcagcagtg aattttcaga aacatttaca tttttcccc 120
ctcagcaaaa agataaatca cagtgtaaat tatgttggtc tgctgtcatc tttggctggg 180
gttagacca naagttggtg actagcaaac caatatagcc aaatgttgct agtgctcctt 240
aggcctttta gctataaact cancaaggaa tgtctgcatt ttatctcttt aaggtaccac 300
caggggggta tgacagcatt aacttccata aacttttata gacaaatgga aaaaaatcta 360
caaaatttgc tagtaatatt acacagcaat acacactttt tatactctac acaaaaccaa 420
aattcttggc cttaatngcg aattacaatt ctgtttgaaa atctgtttan aagaataaaa 480
tggaagttna ttccaaaaat gccatttttt cccttagaaa antttgncc cccggtggcc 540
catnntaata aggngaaggc 560
```

<210> 9878

<211> 582

<212> DNA

<213> Homo sapiens

<400> 9878

```

gagtgaacaa tttttattga aaccctccaa gattaaagag gaccnaatgg tgagtttggg 60
tnccataaca naaaatctca cctaactgtt ccatacttca caggaatgaa caaacccaaa 120
cacgacaaaa ttcaaattct catgtnattg ctacaagtga atgtnaatga actaatcatt 180
ttatcataac cttcctttta tcatacgaaa aagggaattt acatggcata acaaaagata 240
tgcaaaactt aatgaaaaca caattctctt aaatttctta aacttatttt taaaggatgc 300
agaatgcact tgaaatgatt aaatgactta agctgattca ttttttttta ttgcaaactg 360
ttttaacatc agcttaaccc ccatgcacgg tattcaaaaa gaacacagct ttcgaattag 420
aaagatcact taaattaaaa aganaaatta agttctaaaa ttaggaaaac gctggaattc 480
cttttgaaag gaatctccnn ttccattctt ttnaaaaatc naatttttgt tacggttccc 540
ccctnccggt taatntccaa ctttatcccc tnccaattaa tt 582

```

<210> 9879

<211> 582

<212> DNA

<213> Homo sapiens

<400> 9879

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gacttatatc ttataggatt tatcacaaaa tgttactgcc cagtgcattt ttgcaaacaa 60
taacaattca ctganagtaa taacattcac atatgtaatt agagtttaaa aatgtaaaaa 120
acttagggta acaaacactt taaacttatt ttttanacat tcaataagcc cattctccca 180
caaaactgtt gattacaaag aancacaatg ggtaactgt ggcaaaacat aanaaataag 240
gcaggggagg cagatacaga ctgagaaca taaggatatc caaacaattt tgtcaatatc 300

```

aaaagacaaa atcaaaacat cttttataat ataaaacaaa tccatataat taaatactaa 360
 ttaggtgaaa gattataggg tatataacat ttattttctc tacataaatt tgcatacttt 420
 aaatttaatg caaaacatca tgtttcaact tccacttaac atcataacat gttattcctg 480

gggaatccaa aatttatgga atgaatattt aaattgactc ccaanatcca accagttttt 540
 attnggttat ggtggcctta antcctnaan ncttcctttt tt 582

<210> 9880

<211> 578

<212> DNA

<213> Homo sapiens

<400> 9880

gctgttggtg ctgtgcttt tgggtgccata tctaanaaac attgccaaat ccaaggtcat 60
 gaanatttat tcctgtattt tcttctcnaa gttttatggg tttagctctt acatttaggt 120
 ctttgatcta ttttgaatta atttttatat atgggatgaa gtacaggtac aaattcattc 180
 ttttgcatgt gaatattcac ttgtcttagc actattagtt gaagacactg ttctttcttc 240
 attgaatggg cctggaaccc ttgtcaaaaa tcaattgacc atagtgtatt ggcgtaattt 300
 gtttctggac ttccattct actctattgc tttatatatt tttataccag cacaacactg 360
 ttttgattga agtanccttg cagtaaattt tgaattgga aaatgtgaat ccttcaactt 420
 tattcttggt ccagatgttt tgaacagact tgaattcctc cgttacttgc aatccctata 480
 attcnagggt cggctttcca tttctgttaa anggtcctgg aatttaatgg ggaagtttta 540
 atccttaaaa aatttgggaa ttagccccct aacaantt 578

<210> 9881

<211> 588

<212> DNA

<213> Homo sapiens

<400> 9881

acataaaaatt atctcactcc attttatitta anattttttt atccagtttag taaaaggaan 60
 atgtgtctct ctttatacat atgtacaagt tcagttataa aaatagcaca ttcaaagaga 120
 aaaggcttgg catttttctg attccctcta aatagcatct gtacacagga atctgggttt 180
 gagcagggga atcttaatga tttaaattaa atgattcccc tataccccct actccaaaaa 240
 agttttaaaa atcaatctat cgaaactcaa ttccgcgatt ttcaggtgtg caaatcaaag 300
 gcttgccgc ccggaggtag ctgctccacc aggacatca ngcaggagga ggcagaaaca 360
 cctcccatgc aaacactgcc cctctgtctc tactggaggg cagcaaactc angctggccg 420
 ggctgggaag gccggtgccn aacctgcccc tctctccgcc ctcttcacct caatcctgct 480
 gtcccttctt ctctcattgc aatataaana ntgcatacac ccaaccaggg aatgaagggn 540
 ttaccaggaa aatnttcttc cggatgggca angggantct ccaaaang 588

<210> 9882

<211> 456

<212> DNA

<213> Homo sapiens

<400> 9882

cataactttt catagaaaaa tataaatata ttccctgaat tgtaaganaa aaaaataatt 60
 ttaacagcca gctttcacca taaatgccag tccatttctt cttaaataaa ctggctttcc 120
 ctcaaggtea taagggtgcaa ccattgaaat ctaacacatt ttctaaactt ctgtcatcat 180
 ccccatcatg gtatctcaca gtccttctac cctgatttct cgttttttatt tttgaacgtc 240
 gaaaaactct tttagatttt gcatagtcca aatcctccca gtcattatca tccacactta 300
 acctagggcg tttgctttgt ctttgacgtc tcacagtttt agatatgtta gctgtaaaag 360
 ttttaccttt tctaactact tttgcttttc ctttcgtttt cncncntttg ggttttgtnt 420
 tanccgtaca ntccaaatct gaatenattt ccnaat 456

<210> 9883

<211> 509

<212> DNA

<213> Homo sapiens

<400> 9883

```

atttnnnngc acatcccttt tcactttaca gtacatttga ctatagtga caacatgatt 60
ccgagtcaaa acagtggccc attgggcact gagcttctga ttggtgtaag gcagtccaat 120
cagtgtggt gtcactgggt taccccaacc atgtccggcc aaaatggcac taccagtggt 180
tagtgaacca tctaattaaa accaaaactc cccagggaa aatgctacac tatcagagtc 240
agtcttgagt cagatcttta ttggtgctc catccanata tatttttagt gctttctctt 300
tacgangtga gtatgttaca cgatgtccag tcttctggan tcgactgctt tcttttttca 360
tcagttcatt tctttgctca tctgtcaatt ccattaattc ttctgtttta tccctataaa 420
atatgaccgc cccctctec cngatattaa gangcccaaa ntcccgggtg aaaactttan 480
gaatcccctc caaatccnga anaaaatcc 509

```

<210> 9884

<211> 423

<212> DNA

<213> Homo sapiens

<400> 9884

```

aatctcaagc tgcttttatt acagaagtaa tacatgtttt gtacggaaaa ttagaaaaac 60
ttagaaaagc tcaaacaac ataaaaatca catattaacc cagtacctag aaggaaccac 120
tgttatcact ctgcagtita ccttcaagta ttttctaca cagcacaca aaaaatatat 180
acatcttatt tttcaatctt attttttcag ttatgtagt aaacagcttt tctggcgtag 240
agcctacgaa cttgagcgct tgtgtggatt ttgtcctcac aaccacagcc agcatacaca 300
cagctctgcc acccaaaaca ctcttcaccc tttctctggt ggtcntgcct ccccgaaacc 360
cngcctctcc anccaccgat ctgggtctcc anccccangg tctgtnttct ttttganaat 420
atc 423

```

<210> 9885

<211> 546

<212> DNA

<213> Homo sapiens

<400> 9885

```

aagattaaaa aatgcttttaa tactgctgaa gtctttcaat tctagagcag gcatagaata 60
tatagaatgt ttaccttatg accagataca acctccaag aaaaactgga tcctgcaggg 120
cagctggtct tcacagtacc tgctgggact acagttgcag aagtcattcc atcacttttc 180
tctttttaag ggagttaagt acaggtnaag gaactcttcn agcaaagatc ttaataatct 240
cttgattatc gatgtccgtg gaggcctttt aatccttcn ttgcttctgc attcttganc 300
cttggttctt ttcactcact ctctcctaata tctcctgtct ttctgaatgg gccattccag 360
ttttcaatag gtgacttcta tttctcngt gttgggtgtg cctanggttc tgttgtgtgc 420
atttctgana tatattaaca ctccgggaaa tcttattgac aaatcccca ttacttaaac 480
attgtcantt ccnggccnaa atccctatct taactcngg tccnaancnc cactttatgg 540
gctttg 546

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<210> 9886

<211> 557

<212> DNA

<213> Homo sapiens

<400> 9886

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gaaatggtac tgaatatatt tgttacatcc tgaatcaacc caatagacta tcttgtaaac 60
aaaatagtaa ggtaacactt caaaaacaga tgaacaattt atccaccaag aatgtatata 120
gtaagccaaa agctcactgt ggaaatacac ttagcatggt tattagaaaa tcacaaagag 180
taatgtaaca agttacaaa ttttatggtc atgttctgct tgataattca aataggatgg 240
atggtagtta ctagtttnc tttgtgttg ttttaacatc tccattgatt tttaatgctt 300
tattttttat ttgaatttgc tggctggcag gtttgctttg cttatacat tgactgcaac 360
acncttattg ttgtgtttgg gtanaataan acntncgana atatttttta aaggcctntg 420

```


gaaggttcca tggaaaaatc cgaatactcc ataaccctgc cgttccaaaa ttccactgaa 480
 tgcctgttat tngggcacca acggaccctn gttggcaggt tttttnctnc aaaacaatgg 540
 ttggtntncc ncctgct 557

<210> 9887

<211> 553

<212> DNA

<213> Homo sapiens

<400> 9887

actgaataca accctcccc gtgaaagcca agctgggtaa tgctcttgtc tcccaggatg 60
 gtgttgcagg atgttgcaaa atggaacagt aataaaaaac cactacctca ttatctcatc 120
 atctgctgga gccaggcaaa tagcttcctg attgaagctc aacaaaaggt gagangtccc 180
 ttgggttgct gtgtacctaa aagctctccc atatctcaga ctgcaaacta cctgtttttc 240
 gtgcaganag aaangcctct aggttccagg ttctggactt tgcctttaag cagattggct 300
 ttgccagaat gtctcctttt cttatcactt aatgctgttg cctcccagaa ctgatacttc 360
 ccanataacc canancaaat gtgaaaaagc acanctatgcc ctgagaacga tttctaanaa 420
 actgcatgga ctccatcatc taanaacatt acatgttggc ctctatact tcntaaccag 480
 ccagentact ccgaatatct gaaattagtt nctentatat ttncagggtt gtttccccnc 540
 ctgttcctna tat 553

<210> 9888

<211> 492

<212> DNA

<213> Homo sapiens

<400> 9888

aaaaacatgt taagatgttt tatttcttaa tcagctaatt tgactgggaa acaaanatgc 60
 cttttattca cattttcttt gantcgtgtt actgtagtaa aggttcccca caanatttgg 120

特平 1 1 - 2 4 8 0 3 6

cctttgctca caagttttgc ggctgccaat tagtttccan agtcgctatt ttacaaaaat 180
 gcttctcact tttaaaaaat gtaattgaat gtctgttcat cacagagttt cttgtgttca 240
 agcccagggg gttaaacatt tttcaggttg acttgggtca gctttgaaaa atttcagaca 300

gtgaaacttg anaagggacc gtatgctata ntgtgttcct cacatcctgt taagtattaa 360
 gtggatattt aaaatggant tgttatcctc ttgactgact taaagtgagc catatanttt 420
 accanactat taattaaatn aaaaaaatgc ctgggatgcn catttntttc ntaatcatcc 480
 cattggnccc ga 492

<210> 9889

<211> 441

<212> DNA

<213> Homo sapiens

<400> 9889

aagcttacc tgtaattttt aataacttta taaggagcaa atgtgtcacc ttaaaaatgt 60
 accagtggca tttacaaatt cttcaaact catttacaaa tacagtaata aaaattcctg 120
 agtccecttt tcttacacca gtattcacca atcaacatcc atgcggtgtt ttatttgacc 180
 cacatcctct ttccttttct taagaaaata ttttatcaca ttcgtaaaag tatctgtgct 240
 tcaagtcagt ttgtaagtat ctgtttttta tgtgaatctg atgataacaa gagaaaaatg 300
 cttaacatta ncaggggcag cangaattga ngggtggtgt gggggacaat ggaaggaaat 360

特平 1 1 - 2 4 8 0 3 6

ctggtaaaac tgtagtttat ttatcaaaaa atgtgaattt ttattttaga aatgtaggtc 60
aagcattgtc atagttgtag tacttaattg anaataatgg nttcnatttg gaagantcna 120
tatacncatt aaacaaaatt aaacagttaa aattataatt cataataatt ataattctca 180

tttttagatg gccaaaatat attgttttct tactataaag tgttatttat tcatcgtcta 240
ttttactaa ttatattcaa ttcacagtag tgacatcaaa gggacaagtc atcataggtc 300
tgagaccagg aaaacctggt ctgttttaac agaagcgtgt ctaaaataaa antacatatt 360
tcaattaggc cccccganat ngaaaagaac ccggatnadc ctgttttttg aaggcctgaa 420
ttccagtttn aatgttattc cttnccccc ctgaaataat taaaaatttg cccatanggt 480
cgggtgctatt taaggcgggt tcaaccctt ttgaaattta ccacttaaaa nttncctnt 540
ggaaaanaaa aaaaaaattt tgacgttttg gttaaaana 579

<210> 9891

<211> 522

<212> DNA

<213> Homo sapiens

<400> 9891

agatanantt tegtcttgt caccangct ggantgcaat ggnacaatct cagctcactg 60
taacctctgc ctcctgantt caagcgaatt tcctgcctca gcctcctgaa taactaggan 120

<212> DNA

<213> Homo sapiens

<400> 9892

```

ggcaactttc tggattact tgtaaacact ggttccttca actttctgat attacttgta   60
aacactgggtt ctttctcaac caccgtattc tgattgggtc tataagtagc acccagtcca  120
caccacagca cgcttctggg gtccaggana ccgccttcac tactgtgctg gccccgcctg  180
tgtacggggcc ccggggccgg gccatccaag gtgcctgtgg tgctcacacc cccatggcgc  240
tcttctcgct gtctttgggg ctgggctcct ccggantctt cttcatctcc caaaccctga  300
accaagtgtg tgcggaagac cgcccaacac catcatttnc tcctccacaa aaagaaactc  360
ttggtctccc centantaaa acaacnggcc aacaattttc tnggcacaaa ggcctttggc  420
cgtgccccaa naatttnttg gttcaccgga atgggttaaaa ttaaantttc cattcctntc  480
ccttnnccca atgggcaaaa cccaaaaagg gccncccaa                               519
    
```

<210> 9893

<211> 568

<212> DNA

<213> Homo sapiens

nttttctgct cccccncgaa aaagggng

568

<210> 9894

<211> 589

<212> DNA

<213> Homo sapiens

<400> 9894

ctcttttttt ttttttttga gacagtttca ttctgtcacc caggctggag tgcagtgttg 60
 caatcttgnn tcaactgcaac ctctgcctcc caggttcaag cgatcctctc accttggcca 120
 cccgagtagc tgggattaca ggcatatgac accataccca gctaattttt ttgtagtctc 180
 agtanaaatg ggggtctcacc atgctggcca ggctgggtctt gaactcctga cctcaagtga 240
 tacactctcc tcggcctcca aaagtgctag gattacaggc ttgancactg catccagcca 300
 ctctttttga tttcttacag ttcatatgaa nagaacaaaa tttgtgcaat gaaatgtcca 360
 tgaaacaatt taaacccttc acaaatttta gaaagaaact aaggacaggg atttttttta 420
 tgttacacta accccnaagc attatcttta tacactaaat gcattatgct atagtaagaa 480
 taaattccaa tacngctatn ttttttttaa aangccaatt ggaaaaaatt tgtttctccc 540
 tnaanaaccc cctttttccc gattatccct ccttaaancc aagggcccn 589

<210> 9895

<211> 581

<212> DNA

<213> Homo sapiens

<400> 9895

gaganagtgt ctgcctctgt tgcacaggct ggancacagt ancgccacct cggntcactg 60
 caacctccac ctcccangtt caagcgaatt gctggganta cgggtgcata ccaacatgcc 120
 ctgctaattt ctgtattttt agcaaaaaana gggttttacc atgttggcca ngctgttctt 180

gtgagccact ggcgccagca aattcttact ttcatatgt tgaacgtgca tgcaagtgtg 300
 atcctctagt ttcttattt tctccactt tacaactctt ttgtcctcc tccgtgggag 360
 ttttctcaac ttatcttcc aacctctaa gaatttaata ttctgaattt ccaactcttc 420

tatgaagtgt ttcatattct aaatttctan aaactcttgt ttctgggcc tgctttttca 480
 taacancctt tcttgtttca aaaatcaata cctttattct gaaaaaacat ttactttttt 540
 acaaaacttn tcnccccctg nantttttcc attccccenn c 581

<210> 9896

<211> 472

<212> DNA

<213> Homo sapiens

<400> 9896

gactttaatg atgttcattt atttaaacga tctgtatgaa ttggtgatt ttgtggatac 60
 gccctgaca gacaaggatt cacagccgac ggaagtcagg gaggtccct gcaaattctt 120
 catctccgcg gggcctgccc gagccctgat cctgcagagc cgtggggctg aggtagccgc 180
 cggttggtgt ccaggagtgc gtctttctgg atgcggggca cttcatttc accgtagcaa 240
 ccgggtacca aaagtagaag cggatTTTTG gaaaatgagt cattaggtcc caaagagaac 300
 ctattgcaac atggactcca taacgttctt gaggatcatc ctgagaaact gatgtctctc 360

| | |
|---|-----|
| aaataatgtc aaagtctgtt acataaaaca taattatgaa acattttaag tcttatcatt | 120 |
| caaactactt aaaaggntca aagtcacaaa anatcaagca aaactgceca ggcaataaag | 180 |
| tgcacgaggg gagcccacct ctccagcggc cgtcagcacc canagccgcc agctgagggc | 240 |
| <hr/> | |
| tccatgccga atccatacac aaggtttgtg gttctcagaa nagttttcag acaggaactg | 300 |
| tttccaactt aaaatctttc aacagacaaa tggangtgga anggggatgg ttacacaaa | 360 |
| gtatttccaa atgtaatcag gaaatggaag tgtnaattaa aaccgttttc acatgtntct | 420 |
| cctctttaga aatatcctgc ttgganaatg ttttgacaac cacccaattc tccnaaaacc | 480 |
| ttntcccca aaatactggc nggacnncna ttactttgct tttcttatta aaaaaaattt | 540 |
| cccatttgaa ncccttn | 558 |

<210> 9898

<211> 542

<212> DNA

<213> Homo sapiens

<400> 9898

| | |
|---|-----|
| agatggagtc tcaactctgtt gccaggtcg gagtgcagtg gcacgatctt ggcttactgc | 60 |
| aacttccgcc tcccanattc aagtgatttc tggctaattt ttgtattttt agtcganaca | 120 |
| gcatttcgcc ttgttggcca ggctggctct gaactcctga cctcaagtga tctgcccgcc | 180 |
| ttggcctccc aaagtgctag gattacagc gtgagccacc atgcctggca tttttccata | 240 |
| tgtctttgaa caaattatta actctttttc accttggttt gctttctgga aatggggctg | 300 |
| anaataccta actcctagga tacgtcaaag gattaaatga ggcaatcagt aaattgceca | 360 |
| acaccatttc tggcacaaag tagatacttg gaaaacaatt ccttcccttt ctttcccca | 420 |
| atgtcaaggt gccagcattt cttccctcaa tggcttccct ccaggtanaa aatnttcac | 480 |
| tccnaaatt taaaaggcat ggcggtnggg ggaanggaaa attgggnatt nctttaactt | 540 |
| tc | 542 |

<210> 9899

<211> 461

<212> DNA

<213> Homo sapiens

<400> 9899

```

aaaagaaaat catgtacaga ttttatttct gntgaanac acaaaacaat ttcaacctct 60
gggggtcaaa ataatttaag gatcttgtcc ttgggggttt attttctggt tcnactaagg 120
anaganttca gaanggntag ctcccttgt tacgttttta aacatctttt tcatttggtta 180
gaanaacatt tcaaaagccc naattaaatt atcattaaaa tactttgaca ctttacaatc 240
ttccaagtgg aatttaagtt gtatgccttg atactgtagt ttacagttt ccccatcatt 300
ggtaaataatt cttctatgat gccactataa tgctactggt agaaaatatg tgcatataat 360
ttatcagtat attttctgt taaattttat aaaaatctcn aagttatgaa nanagtttta 420
cncccccnnc aaactaagtg ttgccaact attacccta a 461

```

<210> 9900

<211> 554

<212> DNA

<213> Homo sapiens

<400> 9900

```

cctngtgcag tcaacaagtt tcattttagt tgtgcttaca ttatataact gaagcctgaa 60
cactgattgt gtttttaatt tacacgtttc aagaaaacca taattaaata ttcaccatat 120
acaacaaatt gaacaaatgc aacaaatact catttgctcc caagaaatta atctatagaa 180
aggaaacatc tttttaaaaa gttgaacaca gtctgctatc caggctacaa gtacatattt 240
actgtgttac agcacattat tttttttaa gtccgctttc aacataaata taaataatca 300
cattttaaaa nagctccata ctaagttttc aggtaagtgc taaacagttg gccagtagca 360
actacttacc attatctttc tcacatagag tgactagact atctgcgaaa ctgtataggg 420
tgatgggcaa ggcaaaatga aacatctttg ttcaccatt gaataaacat tgtgttctaa 480
atgccctac tttctaaata cccacccatg gaatgcaatt atttaaaaag ntggttttaa 540
ggatcattat cctt 554

```


<210> 9901

<211> 437

<212> DNA

<213> Homo sapiens

<400> 9901

```
ccattgaana gcgacattca ttctggaatg ttgttttga aaacaactct tctgggggaa 60
ttcaaaagggt actgaacaaa gcaacgtaaa gtaagttttg ggttgttttg caaaataaaa 120
atatacaatt gagtggacca natggcaaaa acataccaat tacaatctga atgctatatt 180
taaaaccctt aaattctgaa ggcctgaata tcaacaaacc tatttatgtt tatgaccta 240
aaaagacatt aaatattatt aaacccccaa cttccaaaac atagagaccc ancaaaactgg 300
gctagtggta tctcagtaca cagtcacaca tgactagact agactagact agactagact 360
agagatctga gtttgcaacc aagtncaana ngctcttaag anctcangct aagggangcc 420
tttattcnaa tgccttg 437
```

<210> 9902

<211> 518

<212> DNA

<213> Homo sapiens

<400> 9902

```
gataggtagt cagatTTTTT attttcaaac gtgccaggta catttccac ttttgaataa 60
cagcaaaacc ggaanangat gctttcacac ataataaatg ttctccatcc tttctgaaat 120
gcaccaaagc aaaaagcctc tgaagtcaaa acatgagaca taattccttg ctcatgtcag 180
gagacatgca ggtgccccct cctttacca ataccaagag acanacggcc gggcaggtgt 240
aaggcgggtg gcgctgcagc tgacatggag aanagtctaa atctgaagac acttttccac 300
acttaggaca agttcttcac tttcatgctt tattgaaagt agaatatgaa tcaaagacag 360
gcattggtaa gcaggttatg tctctaaaat tacttttcgt tcagancaga atgttgtccc 420
```

atctacttga tacaatcctt tatggaccaa cncntctngt ttgaaactcc anccaggaaa 480
 ttttaccgaa cttttttccc cnccccnan taataatc 518

<210> 9903

<211> 469

<212> DNA

<213> Homo sapiens

<400> 9903

gtctgaaact ttttcctttt aatatggttt acattctatc tccagagaaa acacacttaa 60
 cagaagacag aaaacattta acaaatccaa agcaattaaa aatagccaca aaaaaagaga 120
 ataacctaga ctgacagctc acagagcaag gaggtggcag anacctgccc aggtgagctt 180
 ggctgttgcc cccagctcaa tcttctctct ctctctctct tgteccctca cctctgatca 240
 gtcccagcct gattcccggt ccctgatgcc tcaccttctt gctgccagat gcctctagga 300
 actagggtcc ttcagactcc agatgccttg gcctgggcct taggacatct tgacttcccc 360
 agtggacagc tggacagtgc cctgctctca cccacagctg ggacctgaac atgccatgag 420
 gccctgtntt gaaattgttt ttgggtnggg anggtncnccn naatttttn 469

<210> 9904

<211> 556

<212> DNA

<213> Homo sapiens

<400> 9904

gttttaaaca gaaaagaaaa tgtagttggt taaataaatc gatgttcttc acaaatttta 60
 ccttagggtc acaggttttt ctctctatct gtttaggaat aacagcttga aaagcagtct 120
 cttctttact tcccaggagaa gagaactgca cagactgaag tggttcactt agttcaactt 180
 catcttcttt tagtatctgt tgagaatcct tgtgcagatg angagacttt ggtgaaacta 240

cttgctgaaa gacagtatTT ttctttttca atatttccaa gctgtctaaa gcagtactgt 360
gttcacatag cgactttaaa atanaaatgg tatttactaa tccagaaagt tctgaanaat 420
ttctangatc cagtattggt tgnctctctg gcagtttcaa cctcaacatg gtccgggggg 480

tggacttcta atctttcccc aatcctccag gtccnaaaaa agtttctcc gnttcttngg 540
aaataaaaaac tttttc 556

<210> 9905

<211> 509

<212> DNA

<213> Homo sapiens

<400> 9905

aaatgtaact ggacaatatt taatcatata cactatttac atgtaattta tgtcataatt 60
ttcttaacat tcaatttcca agcctttgct ctgggaaagc ttccctggag ctctctgggag 120
gttatgtggg ancacagcct tatggcagga ggaaaatggg gaatccaagt caggtttctg 180
gcaatccatc tggccattct gaggtgtgt cttttgagct aanatcctgg tgaattctct 240
cctgtcaatc cctgtgagca tgaggagtga tacatacttt ggttctgaaa aaanaaatgg 300
aaaaaactac aggttctct gctggcaaag ggaangggtc ttccctgan aaaatccgtg 360
aaaaacaaaa attcccatct gcttgccttt gcccantgca tgactgaatt cctcctttgg 420
ggaagaaaga aagcccctnn aaggcaaaat cccctctcct cccaattntt ttgnaaaaa 480
ttctttccaa gcttttnttt naaagcacn 509

<210> 9906

<211> 589

<212> DNA

<213> Homo sapiens

<400> 9906

atttgtataa tatgtctttc aattacaaat tcacttacag tagaaacaga agggaacata 60

特平 1 1 - 2 4 8 0 3 6

| | |
|--|-----|
| aaagtatgat ctactttaca gtaagctggt tttaaaataa aaattacaga tcaatagtga | 120 |
| aggtgaggaa atttaactga naaaattttc aaaatattaa aatattcaaa aacattgaca | 180 |
| catgaataat acctatctta aagtaataat aataaatgac atgtgtatac aaacacattt | 240 |
| <hr/> | |
| aacatgaatc aggattttctt gttcttgatg tcagcaccta ctgtctaacg ggctgagaca | 300 |
| aaatactgtg ccttcaagag ttagtcccat ttggaacccc tctgcatct catctaattt | 360 |
| tgattgaata tctggaggga aatctgctgc tccacagtta aatgggtcaa aaagttctgc | 420 |
| tccaaacaag tcccgtttta tctcaataaa tctctaagtt ctggaagtgg tgtntnccat | 480 |
| tgccaattag gctccaaaaa aggtgtnatt tngaaaaaat tgaatcnttt ccaaaatttc | 540 |
| cttgganggc aaattaggtt tcttctgccc gncggaagtc ngaaacctn | 589 |

<210> 9907

<211> 595

<212> DNA

<213> Homo sapiens

<400> 9907

| | |
|--|-----|
| aaggagaaaa aagtataaaa atttcttttc ttattacaag aattccaaga tgtgtcagag | 60 |
| ttgaccagaa gcatanagaa aactacatag tcgagtaccc accaggggaa tgttggtanaa | 120 |
| ttggcagtct gttggtctct ttgtaatgtc agattaaaga aatcacctgg aggctgacat | 180 |
| tggccccctc ccttcccagg aggcagatct ggcctaaata cggagatgcg tncaaagaag | 240 |

<212> DNA

<213> Homo sapiens

<400> 9908

```

agtggcaact ggtatattatt acaattatat acagtcctat cttccgttct gaggtctata   60
catgatcaca caaatgaaca tgtgtttcct ggggggaaag aaaaactgg ctgttggtca  120
ngaagccctg ctgcctggct cctcctccgg agtgagcccc catctcgcca tgggattagc  180
tgaaccatta cacggcaagc gggggcatcg gaagcgcanc gtggtttcat ttgtctggga  240
agacaacggg gcatnaatgg ggttggggct ggggacaagc acctgacggg tccaaggccg  300
ggcccagggg aaggaagggg atgcanacac canaaggacc ncantcctc ctccactnaa  360
gaatccggaa gcantangga cctactctt                                     389
    
```

<210> 9909

<211> 573

<212> DNA

<213> Homo sapiens

<400> 9909

```

gcaaataat ttatatttat tttgtctcat acacacacag aaaaacagat aaaaatctag   60
cctgagattt aaaactcact aaggaaaaaa aatcacagca aaagcagtag gttaacatca  120
    
```

<210> 9910

<211> 569

<212> DNA

<213> Homo sapiens

<400> 9910

```

aatttttact ttttctcaag tttaatgtag acatacaaga aaacatcaag caatgtttat   60
tgtgcaattc caatcattat ttgcagaatc ttggttttaga gtcagtcttt atagccattt  120
caactgcttg gtttaaacaa aaagcaacaa tctggttatac tacctataaa tttcacggta  180
tttctttaaa cactgaagta ctaaaagcac tgatgatttg tattataatt tttaaaatat  240
ttaaacccta cacagatttc atagatcatt ctttttataa aataatcaaa ataatttgat  300
tatctggaaa aaaaaattct tgaaacagag ccctttccag gtatcttcaa tctctgtaaa  360
accccaaacc ccnaacagag tagatgatga aataaggatt tctcagttgc ccaagactgt  420
ctgaaattta aggtganaaa tggactggcg tttttcatgt ttcctgtgaa ttcaaaactt  480
acaggtggga tcanaactcc atctctngga anggtttact tggcttcctt ttgaattggt  540
tcctttccat tggtctcttt cccactcct                                     569
    
```

<210> 9911

<211> 549

acacaaaccc aaaagtcttg agcgctgtgc catatgcttg atttcaganc attcaggcac 420
tcnaggtcaa gtgtgggggc atatatatat atgttctgtc atctcaaatg ccacnacngg 480
ttcagttngc cgggatttcn aaaaaaagaa gctttcctgg aagaatgnat ccntcccccc 540

attttnttt 549

<210> 9912

<211> 515

<212> DNA

<213> Homo sapiens

<400> 9912

aggatanag tctatgttgc acagtctggt cacaaactcc tggcctcaag tgatgtttcc 60
tcctcagcct cctaaagtat tganattaca gctgtaagcc actatactg gcctcaaaat 120
tatattaatg tctattagtt aacttgaatt gtttgtgctt gtcttggtgg ttttaaccct 180
acttatatac aagaattcaa aagtattttc aagccctatc atttagttgt aaaatatacc 240
caactcacat ttatagactg ccaactaact tgaatgtttg tacaggcatt tctgctgtga 300
tgccatgtgt acctaaataa aactcacact ctataaaatc acacactaaa ttaaattaac 360
agggctatag aaaaaagant tataggctta cctctcaaaa tctatagact tttgtgacta 420
gaaagcacta aaaaacagca ataatacct attaacngtt ttaccgggta atctctccgc 480
nancaaccn aatncngggg aaatncttgg cacct 515

<210> 9913

<211> 510

<212> DNA

<213> Homo sapiens

<400> 9913

ccgaattatt taacttcatt ttattattat ttatgctcct caggtaattt acatcgactg 60
catctgtatg gtgaaaatat agtataatgg ggtgctgctg tgaatctcct tccaattctg 120

| | |
|---|-----|
| cattctgtga tatcatagtg gtaacctgaa atccaccata gtggggacat ttacacaata | 180 |
| actggcaaat gctacaaggc tgggcttttt cagttttgtt gattgtctgg acataaaaag | 240 |
| gtaatacaga aaatgttacc aatacaagca tttgggaaaa ataaactaaa accttttgtg | 300 |
| <hr/> | |
| aaaaacaaca ggttttatgg aatttacaat aaataatact gtatatatta ttatttataa | 360 |
| attctgtgct acacattctt catatcagta aaacttaaaa catatatatg ttatccatac | 420 |
| at ttgttttt ctanaaancc actggttgaa cattaaccaa cacactactg ggaatttcn | 480 |
| nccnccaaag tttttttagg tnggggangg | 510 |

<210> 9914

<211> 554

<212> DNA

<213> Homo sapiens

<400> 9914

| | |
|--|-----|
| gactgaaaac tactttatth gaagacattt tcttctatag ttctaaacac aaaaggaatg | 60 |
| ctgtttatagt gggatattca taggcattct tgtattcaaa tgaatcacat aatgtttaca | 120 |
| cttttaagct agacttgaaa ttgaagactt aatacaacct tttacaaaag aaagtatcag | 180 |
| tcatatcaaa acataactat tcattctaca gattatcact ttccctaaaa tgactactan | 240 |
| atatgaaaac attgcaggga cagctcaagt gccccattct taagggtttt ttttaatagg | 300 |
| aaaaatgaca acgtaaatca catthtcctt ttctttacta gtaatgaact atggcaatcc | 360 |
| at ttgagaaa gcaccagcca accgtacaag tcatttcagc accctttgct cttcnaaact | 420 |
| gaacatcttt tatatttaat gcttccngtt tgaataaaaa tgggtatgtt tanttcaaaa | 480 |
| ttccccacct ntttatnngg ggtttaatta aaaagttttc ccntttccn aaaaaattaa | 540 |
| aaaattcncc cgnt | 554 |

<210> 9915

<211> 497

<212> DNA

<213> Homo sapiens

<400> 9915

| | |
|---|-----|
| gggaatcacc attttcagtt tttaatgtta aaggggctaa cactgtatgg gactcaagac | 60 |
| tggttttgaa attctctttt acatcagtca taaataactg attgttaaca ttatttaatt | 120 |
| tctgtgttag attttccacc aaactctgag gttcacaagt tggaattaca tttgaatgag | 180 |
| ggtagtant tgggatttca acactctttg ctatgantcc cattgttggt aagtcacttg | 240 |
| ttaccaagtt ttgggaancg ttaggtgcaa ttagtggagg agcaactttc tttcttctct | 300 |
| taaaaacact gtttccctt tttatttaaa tgactggatc ttgtgttctg aaggaccact | 360 |
| tntnacanaa acacgaaaac tggtactggt aaaattttgt gatgggcccc cncaattagg | 420 |
| aatgaacta aaacacaaac cntttcenca gtctccant attaattcct nccttgaaa | 480 |
| aanangcaaa ctgctac | 497 |

<210> 9916

<211> 520

<212> DNA

<213> Homo sapiens

<400> 9916

| | |
|---|-----|
| cagtggattt ctcaacaagt cttttcaaca gtgatacaca atattcttcc ctttggaatc | 60 |
| ggtgctgtta aataaacatg tncatatag ccattttcca atgcaacatt agagtacana | 120 |
| acaggatttc tgtggctagt gagtaatact gctgctgtag ggtgcataca cgtaggatac | 180 |
| ggacnangat ctactcagg attgcatcgt antagggaca naaaaccatc ttgttatatt | 240 |
| tgaccaggcg agcaaattta atagcaactt cctccagctc tctctgaact ggactgagtc | 300 |
| ccccagggac tgtgggcaat ggcttctgat gaccnaggc aaggtaggtt ctaaaaagtc | 360 |
| aggattcnan atcccatgat cctgccaatg gggctctggg aactgggcca cggcctggat | 420 |
| ctgggccttg aacaccggct ccttgttcnt ggtgaaagga aaagaccccc ccnggaaaag | 480 |

| | |
|---------------|-----|
| a att cta aat | 520 |
|---------------|-----|

<211> 543

<212> DNA

<213> Homo sapiens

<400> 9917

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gaggtacaaa tccaacagag ctttaatccc aaagatccag tggccaccag antacagaag   60
tcagaatcaa atgctcagaa tcaaaagggtg tggcactcct gccagccgg cttatcagca  120
gttgtataga cagatcagaa aaaactagca ttattataa aaactgtttt tcaaatgggg  180
tgatttcctg tccttctcca nanatcataa ttcttcacgt ttctgaggac cttctcggct  240
tggttctttt gtcttctctt tgtacagtgc tcccgtttct ttctccttct gaaagcggat  300
ctgtagctgt ttgatctctt ggtcgtagtc ctgccactcc gggacaatcc gcacagctgc  360
ttcccagttt ccgggtctct tgggtctccg gaattattac acaaatcaat gggttttgtc  420
cttttcttaa aaaggcgtca tcacaccacg tttcacacca aaaccattct tagnaaggang  480
gatttaattn gcacctgatn aatcattttt tnggccnatc ttnatcaaaa ttgaaagggtg  540
ttt                                                                    543
    
```

<210> 9918

<211> 575

<212> DNA

<213> Homo sapiens

<400> 9918

```

gtactctaag gnttttatct ggtgacatct ttccacagat aaatgtaatg tgtatcatta   60
cattacatt gcttttatct agcacaaaac ctctgatgag taagttcata gtagttatta  120
aatgctttgc cacattcttt aaaatcagaa ttttctcag catgaatttt cttctgtgca  180
ataagctgtc agcaatgggt gaanactttc cccacattct tcacatttgt agtgtttctc  240
tccagtatga attatcttgt gatttcaatg ccttgagcaa natttatgga atttgccaca  300
ttctttacat ttgtagggat ttctctttag taaaaattct tacntantaa nggtngaagc  360
agtgattaaa anctccccca cattttttat acttgcngga ttctctctc tttgaactct  420
    
```

特平 1 1 - 2 4 8 0 3 6

cttatgtttc attaaaatgt gagcacggt taaaancgtt gccacattct cccatttata 480
 ncgtttgang gcagtatgaa tttcctaag tctagtgggt gtgaccccgga ataaaggntt 540
 tncccatnct ccccgttgtn gggttcccnc catat 575

<210> 9919

<211> 500

<212> DNA

<213> Homo sapiens

<400> 9919

gtaaatggtc tcagatactt tcttttgcta aatgggtgtga tacagataaa tccaataaat 60
 ataataattt acttaattca ttatcatcag gaangnctgg aattaaaatt cttgattttg 120
 agtttataac ggtttcattt cacttattac ctctacatat gatcatttta aatgtcagac 180
 taattgaact actgaattga atgcaggcta ttagcattaa atgagactca tgcaatagaa 240
 tataaaggta ttacactgtc cctattttgt gcactgttta ataatcttag gtacttanaa 300
 tttttagatg tgtntctaataaatat tttt gttaaatacgt cttgaccaag tgttataaat 360
 gtttctnaca gatataaana tcatttccaa agtttactct catanatttc tgatacgtgt 420
 aaattccaat gttacctcat aaccanccaa atattccaan tctcanaaaa tgcaaaatta 480
 caatantccc tgtttncnccn 500

atagtatatt gctcttctca ttaatttctt tggtatcttc atgaattttt tccttttgag 240
 tttccatttc agcaattcgt ttctgcaact cataactccc aacttaaagc aggatactaa 300
 aaagtcaact tcaatgaatt aatatgccta atttaataaa ttcaaccctg gtgatcaacg 360

ggangaacag ggttcncacc aanaaaatnc cccacattgg aataattcca cccataatnc 420
 cttttttgtt aaaaannggg tctggcatgt tgcccag 457

<210> 9921

<211> 507

<212> DNA

<213> Homo sapiens

<400> 9921

attattatac tttacnnttt anggtacatg tgcacaatgt gcaggttagt tacatatgta 60
 tacatgtgcc atgctggggg gctgcacca ntaacttgtc atttancatt aactatatct 120
 ccnaatgcta atcctcccc cccccccac cccaaaaaca gtccccanaa tgtgaagttc 180
 cccnnccngt gtccatgtgt tctcattgtt caattctcat ctatgantga gaacatgcgg 240
 tgtttggttt tttgtccttg cgatagttaa ctgagaatga tgatttcaa tttcatccat 300
 gtccctacaa aggacatgaa ctcatcattt tttatggctg catagtattc catggtgtat 360
 atgtgccaca ttttcttaat ccagtctatc attgttgtac atttgggttg gntccaagtc 420
 tttgctattg tgaanaatgt cncaataaac atacttttca tgttttctta ataccaccan 480
 gaattaaaat cccttngggg attnccc 507

<210> 9922

<211> 529

<212> DNA

<213> Homo sapiens

<400> 9922

cctcaggcac tttttatttc atgctgtgcg ggggcccttg tcccaaattt gtggccacgt 60

gtccangtgt ctgggggant gggccaaacc tgaaaaaaga aggccctgct ccaaaaatcc 120
 ccangttgtc cctgttgacc tatagggang tctgacttca ggcgttgccc tctgacccg 180
 tgagcagtcc tgaatcgctg gctcctattc tgtcacacgg ggtgggtagt gccaaaanca 240
 gcctcctgca ncccttggcg tccggaanag tgacagccac attcaagtct ccctggcacg 300
 tgagggtccat ggtgcccctg actcatgtcc tggctccagc caatanccca ncccccatg 360
 gaaangttcc ancatgtgca aaaatgcaca ttggccangt ggctgcccc cggaacatt 420
 tttcaaaaaa gcaggggtca ggtnacccaa ttntccaaaa tctcatggaa aggtcccacc 480
 cattggcccc cccaanccaa ccacancagg gtttnaaccn cnaaacccc 529

<210> 9923

<211> 544

<212> DNA

<213> Homo sapiens

<400> 9923

cagagtcaat aactttatta gaaaaagatt aataactaaaa cttttcaatg acagagacaa 60
 tcaactttgt aacagaaagt cagagatact ttatttttac ttctaaatcc aaaggntaag 120
 tagagcagag ttgtaaaaat gaaatcccac ttagtctgat tcacacgaat actaacgttt 180
 aatcctgttt tcaaagtcca agattgaaaa cttgcaatta aacactgagc aagccacatg 240
 ttttaagtaat atttcttaaa aagtcttaaa gaaaaaagta tgatacagga cctaagtttt 300
 cagtggcata tatattatta acacatgttc tgaaatctgg taggtcacat cagtcctgaa 360
 ttaactttta ataataataa taataaaaaa actaactgag ctttatactt tttctatgcc 420
 ctatagcttt ctttccctca ctttttaaag gtcgatcttc actctatgcc gtncctcggt 480
 ttctnccaaa aatctcnaac agtatncccc ngctngatcn gaggtcttat caaatcagtt 540
 taat 544

<210> 9924

<211> 366

<212> DNA

<213> Homo sapiens

<400> 9924

```
acggggaaga gtggactcaa tttttatitt tgaacctca tgcacagagt tccttatatt 60
ccccaggtcc cacaagagta ccaggtgcc a ttcagaacc acctttctaa acctctgccc 120
accactgaa agcaacacgg cccttcacag cctggcttcc ttcttttgac acacagccct 180
tccgctccag tggagaatcg ccaaagatca tgaagggtaa atagtctcct ctgaaccctt 240
ggtctgggaa acccgtttca accccggggg gagcccantg gccactgggtg ctgcccaagg 300
gctgctgtgg ggcanaaata acacacanaa gaaaggtngg ggtggnagga accctccan 360
aaanca 366
```

<210> 9925

<211> 571

<212> DNA

<213> Homo sapiens

<400> 9925

```
aaaggtaaga ncactttatt cttatttgaa ccacactgta ttgttgatta ccgantgtga 60
aagtagtatg ttcagantct tgttttatgc cttttagct gtgttgccag catttgaagg 120
taactcctcc acataagcgg caggaaaatg gccttttttc ccattcaaag atccaaacca 180
ccatccttct tcttttttct cgtgtataat cacaatgtca cccttttcca aattcaactc 240
atcatcttgc ctggcttgaa aagaatacaa ngccttgcaa agtctgctgc tgagctgggc 300
tgcaccaggg gctggagttg aaaaactgga ttgctctgcc caccanaaga tgccttgctc 360
acaatattct ctaatctctt cattaaaaaa ggccgagata ttttcacata gctatgagta 420
tgctcctttt ccctcccctg aaanatggaa ttactacnag gatggctggg ttgaagtctt 480
tgctccaatt tctgctacat tgataacagt ttgttggtt cnccttccaaa aggtctattt 540
caaattgtcc cncncnttaa cncnctntt t 571
```

<210> 9926

<211> 582

<212> DNA

<213> Homo sapiens

<400> 9926

```

gctcacggcc atgatttatt acagtgaag gatacaaac aaaatcagca aaggaaaaaa 60
nacacatggg gtgaagtcag gggaaactaa gtgcaagctt ccaanaatcc tccgccagt 120
gaatcacaga ggatgagctt aattctccca gcaaccagtt gtaacagcac ttgtgaaaca 180
ctgtcaacca naaaagcttg ttagagactg agtgcctggg gtttttactg ggagctggtc 240
acaaaggtag tctctgcctg gcacatacca aaattccaga ctcccagaag gaaagcaggt 300
gttcaggaga aactatattg ttttacagtt tanatatant aagctacttt gatcagttct 360
gggaatgggtg gaagccccct gaactccaag ttcceanatg ccaatcaagg gccaaccttg 420
taaagcaagt ctctaangtt aagtantcag gtcgcttcat taacactttt ttctgcacag 480
caattttatc tcacattttt tctccatgc ccataaatac ncatttcctt aattntcttt 540
aacnagttta ctatctcgg tttccctta ataatccaat an 582
    
```

<210> 9927

<211> 582

<212> DNA

<213> Homo sapiens

<400> 9927

```

acactgcttg cactttattt tgtacagaca tttcattaat tattactcaa ttttgaggtg 60
caaaccttct gaatatagct ttcatTTtg accaaacaat ttgttatggc aataaataat 120
gatgcattga aaaaccaatt tttgtatttg atttaatgca ctcttacatt taagaaatta 180
tatatacatt cttgaatttc aacttaccaa aatagaatag cttttattta acagcctaag 240
cttttgTTTT cctgacaaat actgaaactt tttgttacat taatgctgca aagttgttta 300
tcacctcaac tttctcactg ctttgctcat aactaagtgt gattacatgg agagagaaag 360
ttttgtaaca gtaacacatg atttagagtt taaaatcata tcagaaagat gggaattatt 420
    
```

taaatatacc ttataaaaat aagtggctta atcaatgaaa aaaaaaccca ggggtttttg 480
gcttataatt anaaaataan tntatcctta gttatagtta attaaaaaaa tcaccaccta 540
aaanttaaac catccgaant tttccttacc gaaaaaattt tt 582

<210> 9928

<211> 580

<212> DNA

<213> Homo sapiens

<400> 9928

gttaattttt tacagcttta ttttagacag atagttaaag aaccaaagac atacctctgt 60
aatgataaag gaaagaaaac aagcttttct ttttaagaaac caaagagcac aaaataagac 120
tgtttcatta tacataatca ccacaggata ttaggcactc tgacagggtt aggcaanatt 180
cttgggtgtga ggtgaagcac aggcacttta tttgtacagt gctgctgatt ctaattttga 240
aggtaggtat tataaaagtc tttacttgtc accittatttc tggccccaac acagcagcct 300
atagttttta aagttctgtt tctccctggt ctttgttcgt atacacatcg aaagtaactt 360
aaaaacaagg atccaagggg gccatacttc atatgttatt taaatgttaa tatgagaact 420
caaaagtagg cagattatat gaatacatat tcttacctct gctacaaata aaaacacccc 480
aaacccttcn tcatactttt attaaaattc cgatnttaac tgttnccttt atntccattc 540
ctnaaaattt ttattgctta atnaatccag atnttttttt 580

<210> 9929

<211> 418

<212> DNA

<213> Homo sapiens

<400> 9929

agaaaggcag atgatttctt tattgtnaag acagcagtta caaaagagaa taaatatgac 60

aactcacaag tatgggggat aagaacatct acagctggat accctgaaac agatgttata 180
aactggctaa tggtagtat ggccatgact ttggggatgt ttgaaaggcc ctggatctgt 240
cacttgggaa cgtcagcggc ctactgtaat acaatttgca cagagtcaga gtgaacagga 300
acccttttac tcattggtat cctaactatt ctttcgttct tacagtgaac ttattacagt 360
atttaanaan tggggaaaaa ggctgaactg ggaaanacnt anacggagcc nngtttaa 418

<210> 9930

<211> 604

<212> DNA

<213> Homo sapiens

<400> 9930

gtgttaaaat tacttttatt cagggatgaa aaatacaata tgtaaccaga ttagatgata 60
gtctgtgatt atttctttac cacatatttc aaaagaacta catacttact tcccattgtt 120
actgcaatat atttcttttt atttattatt acttagaaag ttacaatgta ntgttttacg 180
tancctttct ttaatagcag atagaggaca ttttgcatat aaatacaggc agaaaaaaaa 240
ttaacacatg acttttttaa gtaagaacaa gggaagacac caaatctaca acttgagatt 300
gagagctcag ggaattgttt tttcttttaa taggtgcttt ctgggtatg acatggcctg 360
ataaaagctc tagactttgc agactgcagc agcataaagc agtttccaat gcaatggatg 420
aanatngatc tgaaggtana aaaggtgten tggctttccc ttttatatta aacaattttc 480
ttentttcca aatatctctg ctgccaataa aaancctggc cccnaccccc ccancatttc 540
caaataatac cattccactt ttaaccccn ctcgggcat tccccttaa aaaaccccn 600
naaa 604

<210> 9931

<211> 519

<212> DNA

<213> Homo sapiens

<400> 9931

| | |
|---|-----|
| atgaataaga aagcttttta ttttacaggt ctttgtggga agaaacagaa agaaatcaca | 60 |
| aaagcaatta agagagctca aataatgggt nagaaagaat acctcaacaa ctgaattgag | 120 |
| <hr/> | |
| ctagctgaaa ttttgctcat tatgttttgt caagaacttt aattatctct ttacagggtt | 180 |
| tatgccagtt acatacaang atcctgcata tctcaaggac cctaaagttt gtnacatcag | 240 |
| atatcgggaa taaattctat cacgttacca ctaataaact tattttacag taagtgggtg | 300 |
| tatgatgcca atactgactc aaaccaacct ttggatanaa aagtgtttga ggaatgaggt | 360 |
| aaanaatgac acttcccctt cataccaatg tccattaagc agattgctta tttaaaatgt | 420 |
| taacactcnt cncattttat ctatgttgaa taaaaatggn tcngtgtnan tgtcctttan | 480 |
| atctgatccc ccaatagctc ctaccataat cccttccat | 519 |

<210> 9932

<211> 486

<212> DNA

<213> Homo sapiens

<400> 9932

| | |
|--|-----|
| gatttaagga atttctttat tggaattcca ctttacctcg ccacaaggga gctggctttc | 60 |
| atgacaaaga gagantgagc cctgaacaaa gtattcggtta acattttaca acagacaaca | 120 |
| tatacatgtc ctgcatgaca tctttacaat aacacattcc aaaaacaatc aaacatttaa | 180 |
| caggattatt aagaacatt aatttccttc tctctagatg actggtactt tagcttttta | 240 |
| gcttctgcaa taaaatgcgt tccttctcag catttctatt cataggaatc cctgaatcac | 300 |
| ttctgtcatg taagggtcga attcatgttg acgggtgtgt ccattantta ctgaatgtgt | 360 |
| caaaatcctc tccacggtag aaccttttat tgtagcataa tgtgtgaata cacttccagg | 420 |
| ttatccctcc tccnaattc ctenttntt atgggaattc ntctgaaacn ttnaaaaagt | 480 |
| tentcc | 486 |

<210> 9933

<211> 502

<212> DNA

<213> Homo sapiens

<400> 9933

gacgtaataa tctatTTTTA ttcattTTTA atcaaagaga ccattccatt tcctaacaaa 60
 caggtnagtt acaaaagtag tccattTTTAc ttttcatcag tctttccctg ttttgaacaa 120
 gtttttttga gaattcttag ttttagTTTT tgttttagctt acacactgaa aattttgaga 180
 agcatctaaa aaaatccaca attagtGcaa aaaganggga caatacttta agtcattcct 240
 tctataaaaa gaattaaggt tactaaatgc caattTTTaa gcaaatatat agtttcctat 300
 ttgccttctg aaagacagca gatataaaaa tagttcaata ttangtttaa caagggtttg 360
 aacaacacat gttactatca gctttatTTT acctgcaaaa atatttttagc tacacttgga 420
 aaaaaataaa cttganaata taacttcccn tttcttangg cngaagccag aatacctatt 480
 cntttcctt taaattgnaa aa 502

<210> 9934

<211> 333

<212> DNA

<213> Homo sapiens

<400> 9934

gtacactttg ggatttatta agattctaga atttaaaaac aggaaaangt gccattagta 60
 aaaactccat cactaacatt ttggtaccac tcgtanagcg tcacataaat attcagacca 120
 tgataactca ntgcaggaat gttatcaaatt atttccatgc aatctggaac tangaccaca 180
 gctggcaatt gggggctctga aagcccgaca tcccttacgc tgcttcctac atcttgacaa 240
 caggaagcca agtgatacta ngtnntgcac tacaacagtg aacataaccc ccctctgttt 300
 ttttgccnng tttttttaac naccaaccna aac 333

<210> 9935

<211> 585

<212> DNA

<213> Homo sapiens

<400> 9935

ctagttcctg taacaaatgt attaaatatt cattctgaga attaagata ctggcactag 60
atgggtgctat cccatcaggt aagtcaattc ctttaaaaac aacattcgat ctttctgatt 120
gtcgtaaaag actagtttct ttttcaagat ggtctatctt taaattagct ttgccaact 180
gctgtgaata atttatagcc tctttccgag attccctgag cccctgtctt aattcttcat 240
ttcttccggt aagctgatca acttgggctt tcaaagcan actcgcatca aanattcctt 300
ctgcattctt tgattctata gcattaacta ntctttcgag gctagggata attananatg 360
tttctcctcc ttaacatca ggatctttct gcatttccctt aattgcttgc aatatttctt 420
tcataccttc ttcaagttgc ttattttctt cnactaattc ttttaattta ttctgaaatt 480
tgggtatcac tgcctactc ctttctaaat ctctttcttt ttcaattaat tctcttgaaa 540
naaatcncnc ctgaaaggt gcnnccccc ntttttgaag ggcca 585

<210> 9936

<211> 389

<212> DNA

<213> Homo sapiens

<400> 9936

cagtagacaa gcaactttta gtttttacia gttatagaaa acgcaaattt tcatagcatc 60
aatttttagaa aagaaagatt aaggttccca tctgcggtgc tttttccaat ccgccccatca 120
cccgctccctc tgaagaagca cgcacactcc agatgtctcc ttcattgata acatttctct 180
ctggctgtct ctattcctaa gtcagagtta ctcttgctgc tgctgctgct gctgctgctg 240
ctgctgctgc tgctacngtg gtggcgggcg cggtgggtggc ggtggctgcc caagcctcat 300
ggttgtcagc tccatgcctc ctgaacttca ctccactgaa atctggttgg gtntgaaana 360
naccngtgg aatgaangac aanaaaanc 389

<210> 9937

<211> 514

<212> DNA

<213> Homo sapiens

<400> 9937

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gattgtttgg aatttattct cttaaataan aatgtaacat ttgttaaaaa aaaaattaaa 60
agcacgacaa cttggtttca cagtaaacgg caaaaacaaa gttacacaat taaataaaaa 120
ctcaciaaaga aacacaccaa gaactcacia gagcacaagt taaaaacaaa ggcaaaaatg 180
gaagtggaga naangcgggc agtaaacagg cagcagtggc gtgttccttg gcacagctaa 240
tcctctcctg ttgggctctc gtaccgccgc cggaanccg gctggctgtc cgccccctcc 300
gcaggcaccc caagctgaat ggctccggaa aaaaattgaa accccttggg tgccctgctc 360
ngaaccttaa aanggctatg gtggaaactc cttttgggga cancctaaga aatgttccat 420
tttcttgcen aaaaanaact gaaagatgcc ctanccnccc naaaaataag aattgggctc 480
aaacggctaa ctccnttga accnaacagg aaac 514

```

<210> 9938

<211> 466

<212> DNA

<213> Homo sapiens

<400> 9938

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ctgaattgaa tgctgcattt attatagtgt ttttattaac aaactttcac cagaaagttc 60
cgagtgtgtt aatacancag gcacattggc ttccatgttt ggcatttgac agtccacaga 120
attgcacttc actctcacia ttctgccaca actttgtgaa ttatttgggc aagacctaca 180
accagcctcc cccattaaat gattaaatag gacttttggc tcattctgat tgaaatgttc 240
tgagttcaca cttgcatccg tctgtgacaa gctcanctcc actttccctc ctgccttgtt 300
ttcantccct ccaactgcctc canattggc acgtctctat ttttacagaa gtncctttt 360
tttattctcc ggggtcgcan acactttttg aattacgaat ccaatngctn ctgccaaaca 420

```

aaatnacaan aggctctgcc acctttggga aaangcnc tc statgc

466

<210> 9939

<211> 482

<212> DNA

<213> Homo sapiens

<400> 9939

atcacttaac atttaataat tgcaaatata tttattacaa tttacagatt aattatgtta 60
tatacacaaa tataatttta actataaaat cccaactagt tacattttaa ttattgatct 120
gtagaagcca atttagagtc ttctagtc cc ctaactttac cttcctttaa ttatacaaaa 180
ataaaatctg atagttttga tttcaagtta aagatgaaga agtggttacat ttcacactc 240
agaaatggaa cttttacctg tctgtacaaa gccttttaca tgctacattg acacttaaag 300
caccattaac aagactttta atgtttataa atgtttaatt aaaacctccc aagaatttct 360
ctttaagatt acgggggggt tgaacttngt tctaactaga aatngggatg aaaacaaaaa 420
tttggttttt tntcctnca gtccaacttt aaaatagtc ttnctgtent nctaatecct 480
cc 482

<210> 9940

<211> 430

<212> DNA

<213> Homo sapiens

<400> 9940

atggtattaa atataagtct tagcaccttt ggcatttttg tccaaacaga cttcgacata 60
tgaagtgggg acataaccct cttcatcttc atttctccga atgcgggtcc agccatcgcc 120
tttgtcttc tctatgacat acaatgtttc tccttcaact acggaaatcg ttccttcatt 180
ctgaccttca aatgtgtana gagctttgca cgtccctatg gcaggaggagg gctcctcacc 240
atcaaactcg tcttcaaaat ccgtggccag caccttcacc tcactctcct gantctgctc 300

ctctgtgtta cttgccatct ggggctctca cgggtccttg gggggcaatt gttgaatnnt 360
 gggntgggtn ctgggctgtt cttaaaatcc cgcctctgcc ggggcgccc n gctctttgcn 420
 ttttggganc 430

<210> 9941

<211> 441

<212> DNA

<213> Homo sapiens

○ <400> 9941

ctgtttcagt cgttcagcct ccatggactt ttgcttctgg agttgttgct tattgtgtat 60
 ttctcttagt tccttcagct gattattgaa aatatcaatc tcctgtagtt ttgatctant 120
 ttctttctcc acttcatcca nttggctctg taggtgctgc cganctagtt cttttgcttc 180
 taaggctctt ttaagtgtaa caagtgaatc tctgtgcaaa ctgttctgct gaacttgttt 240
 taattgggtca ttgagtatct gtttttctgg aanaaatctt ccnancattt gctgaaaaac 300
 cngtaattgt tgctgtaaat ggggtgattc ggcaattctc aactctctaa aatttggttg 360
 tgctctcaat ttcttgccnc ngggtgggtca atcaacatct gaatatcttg aaaattnecc 420
 nnccagttgn aaancTTTTT a 441

○ <210> 9942

<211> 395

<212> DNA

<213> Homo sapiens

<400> 9942

cacattctag cactttattg gaacttggtt gtgtacatca atgagatcac atcaaantaa 60
 aagcagcatt ttcacacaat aatatccga tatctgtgct atcttcttac ataatttaat 120
 aaatcccaan atgctcctga ttttgggtatc gaanancctg agtgggtccag aaatatctct 180
 acntaaatat aaatcatcac atctnaaata accatcattg ttttagtagg tcccaanagt 240

cctgggaaca cctcttaaaa tataattgcc ntaggctggc tgcataactg gtgggaagga 300
 attaaagggg tacacatgna cctaattaca gcanganctg ggcagangga canacacaan 360
 gggatggggg gcanaaatcc taaactgggc aggga 395

<210> 9943

<211> 292

<212> DNA

<213> Homo sapiens

<400> 9943

gtcattttat tcttttaata agaaactttt gcttacaaaa acaangtgta aaaagattta 60
 caaaaatcat aaaaacatga tttatatatt acacttgaga gacaaaaaca agccccnnaa 120
 catggatttt aatggaggtg gtttgcttca ttttaaagg gaaaaaaaaa aaaggaagct 180
 gtaaccatac attgatgtta acatagcatg aantttattc ttgaanaatt tacnttggtg 240
 agcgatatta ggggaanaan ccatttggtg ttgcatanca ttttantgcc ca 292

<210> 9944

<211> 535

<212> DNA

<213> Homo sapiens

<400> 9944

gagacggagt ctgctctgt cgcccaggct ggagtgcagt ggcgggatct cggctcactg 60
 caagctccgc ctcccgggtt cagccattc tctgcctca gcctcccaag tagctgggac 120
 tacaggcgcc cgccactacg cccggctaatt ttttgtatt tttagtataa atgangtttc 180
 accatgttgg ccangatggt ctcaaacttc tgatctcaag tgatccaccc gcctcggcct 240
 cccaaagtgc tgcgattaca ggcatgagcc accacgcctg gtcaattttc ttttaactcca 300
 tttttatcca actaatcttc aaaacacttt aanatttag ttataccaac ccnaagtta 360
 catctatatt tgtgttntgc aaatcctcaa aaaaaatgcc atccatgcca aaaaatgaaa 420

aacatttttc cccatttaac cttcnaaaac ctttttaaaa aaacaaccct atattttccc 480
anttcaaatt ttacccaaaa cttcnttaaa anttntaaaa aaaaaanccc tgcng 535

<210> 9945

<211> 588

<212> DNA

<213> Homo sapiens

<400> 9945

atntttttnt ttttttagt ggncaaaaaa actttattag cttagtctcc acccttttaa 60
atgtactcta ggtacaaaat aaacattata cacatataan atcagtcttt ccaactttag 120
aatgtataaa taagaatgac attttaaaat aaaatagttt agtcacagtc acacaaaact 180
accttctaag gaaaactgtc cagtgaancc gttaaatttg tgctttcagc tatgaaaaat 240
taaacttaaa atgcattcat tcttctttta atgaaaaata acctaccctt ggaaacagca 300
taagcattgt tatggtagtc tanctccnaa atgaaaatgt ggactgagtt acagtttact 360
ggttggtanc ccacctaaaa acccttgaaa aattaccann cgatcaaagt atttacataa 420
tttcaaccct ttttcttang anaaaaggta acacanttcc ttaacctctt ttaaaaggaa 480
ctttgaaatt aaaccttatg gtcncaactt tcattcaaaa atgttgctta aatatcaaatt 540
ttctctenca nacnccatnt tcatttcttc cgaaaccten ctggttnc 588

<210> 9946

<211> 444

<212> DNA

<213> Homo sapiens

<400> 9946

actaggttca cacaaatctt tattaattaa aataggaacc attacaaatca acacattttt 60
gccaatgaag aaataagttt gtttactcct gtagcataaa aatccatgct tccaaatttg 120
acgaactctt ggaaagcatt ttctgtgtcc tgctagttgt ggaagcaatt tccctgcaaa 180

acgttgctga gatgcctaaa naagtggtag tttgttggca anaggtcagg tgaatatggc 240
 anatgaggca aaacttcata gcccaattag ttcaattttc gaaacgttgg ttgtgcaacg 300
 tgcggcccaa tttttgtcnt aaaaaaatt gggccctttc tgggtggccaa tgccggctgc 360

aggcattgca tttttnggtg cntcattaa tttgctgaac ntacttanca aatttntggt 420
 tnccctgaa attcaaaaac cntt 444

<210> 9947

<211> 589

<212> DNA

<213> Homo sapiens

<400> 9947

aggtttgta acattaacac atgctttatt caaganataa tattcaaaga gttaaatcct 60
 aagagttatc caccctacag taaaaagggg aagtgggtac cacttatgac atgtacataa 120
 attccacttt tatatttctg aataaagctg caattgcttc tttgatagag ccattttctta 180
 aaacttttgc taataaggct atgtgaactg tgttcanaaa ctttgacaac atgcacactc 240
 actcctctca aagtcagtac ccaggatttt cactccaggc tgagtaccta ttaagtaact 300
 aggacttcag actgcatgtt actatatgaa ttcaatttga ctacacctca gtatgtttat 360
 ctaccacaac tattgtttta aataatcaga tgaatgttta tcataacttt ataactcccc 420
 caaattatac ttcagtattt aacatggtag tttcaaaaaa taaatattca agggcccagt 480
 tttaaatttt cctcccatgt tatccacaaa agttgaanaa tacatgtttg gancccnact 540
 cncaaataat gttaccttcc tttaaaatta cttgttgcca taaaaatta 589

<210> 9948

<211> 295

<212> DNA

<213> Homo sapiens

<400> 9948

aaaatgctga ctggtgacct actaaatgga tttcataacc cactgtgtct tgactcccgg 60
 acagtgtgaa aacctacata caagctcggc ttccagagcc tgatgctcca ggctggaccc 120
 tcgtcggctc aggcaagctg ctctaaccag gccccactcc agtccagct cccaagatg 180
 ggggttagaa aaacgtcnac atgcagggag ggccacaaac aggctgggct ggcatgangt 240
 atgangtatg aaccncatgg ctgagcaana acctgggcca ggtcntanac tccca 295

<210> 9949

<211> 213

<212> DNA

<213> Homo sapiens

<400> 9949

aagatttttc tttttcttca aactttagac ctggctcacg gcgagcctta gaaaagcagt 60
 gagtgccaca gacactgcag ggtgaggccg aggggtgcccc gcacggccca gcaggctcctg 120
 cctggcagtt tctgctcaaa aggctgggac acacaggatg gggcgcgtta acacagggga 180
 ggggggggcg gatttancnc nccntnnacc ctn 213

<210> 9950

<211> 554

<212> DNA

<213> Homo sapiens

<400> 9950

ctcacagatt tctttganct tctttaactg antgttctga aactcttctg cgaaatccgt 60
 caacttttga ataagcagtt taatatgttc tcgcttctgg tatttttcac tataatactg 120
 ttcttgccga aaantaacag ctgctgctgt tgtttgcct tcaagtctat taacttttgg 180
 gtcatttcag catccanagc agcgaggctt tgctcaatcg ttgatgaacc atgatcaggg 240
 ctgctggggt ccgatTTTTT cttactgtcc tttttggcgg acttttccaa agcggctctc 300
 cttctcaagt agtcattctg aatttcatta tacttgggtan tgtgttcttt gataangtca 360

gtggttttct tgtggtgtct cttaccagg tctttcattt cttttagtg tttctttga 420
aatttcccaa acaaaatctg ttgcttaatt cctccanggc tgtgctcccc tccgttaana 480
aacnctgaat aaaatctccg tttngggngg tgccttacia aacctgaact ggttggtttt 540
gaaaaccng nagg 554

<210> 9951
<211> 593
<212> DNA
<213> Homo sapiens

<400> 9951
cttcccagct tgagttttat tataaagaat aatacatata gttaactatt ggtaagaaac 60
gtatattaaa caagggtgtct gtagataaaa acacataaaa caaaaatatg tattggttgg 120
atgacaaaaa tgtantgatc agaggcgtgg aagctaacc tgtatttctc cangancagt 180
ggttcagtat gggctaatag tggtcacagt atcttttagag aacatactcc agcactcacc 240
aaggccatgc ttcttgcatc acagctatgc ttctgcacc caccaaggcc atgactcttc 300
caggtaaacc caaataaggg agaaaggagg caataacagg agcggggang agtccttgaa 360
atcccctcct tttccagaat acctaataag cattccacc ccttattaaa aaaacatccg 420
ggctggggcgc ggtggctcac acctgtaatc ccaccacttt gggaagataa gcagcnaatc 480
nggaagtccg gaaatcaaaa acaccgggt aacacggtga aancctntcc ctctaaaaat 540
taaaattttc ccccggtttg ttgccggccc ntttccccct cncggnggt nag 593

<210> 9952
<211> 403
<212> DNA
<213> Homo sapiens

<400> 9952
gagacanagt ctactctgt cgcccagcct ggantgcagt ggcanatct tggctcactg 60

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| caaactctgc | ttcccagggt | caagtgatct | tccagcctca | acctcccaag | tagctgggac | 120 |
| tttaggtgtg | tgccaccaca | cctggctgtt | ttgtatTTTT | agtacagatg | aaatttcacc | 180 |
| atgttggcca | ggctgggtctc | aaactcctga | cctcaactga | cccacctgcc | ttggactccc | 240 |
| <hr/> | | | | | | |
| aaagtgtctg | gattacaggc | gttagcccca | agctgggctg | cccttgagga | actgantgtg | 300 |
| gctctcaggt | cattccccc | attcacatca | tgaatgaaan | antgtcaga | ngcaagtnnc | 360 |
| atgttaggta | atggggcgac | agcacactgg | gancaangtc | cca | | 403 |

<210> 9953

<211> 572

<212> DNA

<213> Homo sapiens

<400> 9953

| | | | | | | |
|------------|-------------|-------------|------------|------------|------------|-----|
| acaaatttca | atctatatan | antttaattt | gtgcatttgg | ggaaaattta | tgantgcaaa | 60 |
| aaacacttgt | tttcttanaa | tgacatantg | aaaggacat | ttcatttgaa | tgcatagtgt | 120 |
| acattctaaa | atataccta | ttctttacaa | agtgccttgg | cagtcncata | cacatacagt | 180 |
| aatagcaaaa | tatatattaca | ctctataaag | cttaaaattt | taaatctgac | taaaatatat | 240 |
| atatatttta | aactacaaaa | aattagtgt | ttcttcagct | taattgtgta | aatagaccct | 300 |
| gccttcta | at | tttttttagtg | attgacttcn | attaaaaaaa | aaattctgta | 360 |
| ttacaaaatg | ctgtcagttt | ttaatgctaa | gancctattt | tagacattac | tttctttgct | 420 |
| atttgagaac | ccaaaaagtg | agcagactgt | ntccaaaaat | ntttanggt | ttaattta | 480 |
| gttgttttac | cccgttta | ttaaacccca | aaaatnagcn | aaattcccn | atgttccttg | 540 |
| gccaggaaat | aactggnc | ttaaaaactt | ta | | | 572 |

<210> 9954

<211> 591

<212> DNA

<213> Homo sapiens

<400> 9954

| | |
|---|-----|
| ctgttcctaa cacaaatgtg aatttattgg ttgatttgat atttaaaata gtacttttac | 60 |
| aaaatcatct cagaaaatat actacattta ttaaaattcc tacaaaccat tgcagaaaat | 120 |
| attaaaccct ctaaccaacc taacactcgc tttcagaggc acttgtgatg attttcacag | 180 |
| cttccatagt tgcaaagaac aaagaaatca tcttccaaca ggggtggaat tagataagaa | 240 |
| taatccaaaa aatatttatt tctttacaga ctcacagatt gcttgatggt taggggctct | 300 |
| tacctaggat acctaattat tcaaggtttt cctaatttag tanacttttt cattgcctac | 360 |
| aatctacaat attcancaaa gtattaaggg aaaatgaacc caagaaacct taaccacctc | 420 |
| aaatantttt atggatatac taaactgtcn agttcaatct ttatcttaan acttganaac | 480 |
| tggaatgccg gaaaacnaac tttgggtgga attctggaat taaaaaantt aaacctgggc | 540 |
| gaantaaggt gtggcacctt gtttntttnt tccnaaaacc caaccctnga c | 591 |

<210> 9955

<211> 585

<212> DNA

<213> Homo sapiens

<400> 9955

| | |
|--|-----|
| gagacggact ctgctctgt caccaggct ggagtgcagt ggtgccatct cggctcactg | 60 |
| caagctctgc ctcccagggt caaganattc tctgcctca gcctcccgag tagctggaac | 120 |
| tacaggcacc cgccaccacg cccggctaatt tttttgtatt tttaatggag acgggtttca | 180 |
| ccgtgttagc caggatggtc tctatctcct gacctcgtga tctgcccacc tcggccttcc | 240 |
| aaagtgtctgg gattacaggc gtgagccact gcgcctggcc tcaaggattt tctttaaaaa | 300 |
| tggaatttaa tatcaaaaag taagcttttc agaaaacaca ttcctaactt taataaagac | 360 |
| aaaagaagcc atttccaaca aaaagtaaca cttaatatc taagactccc cncaactttc | 420 |
| agattttaat ttcaaccttc ctgggnaagc tccctgcttc ttagcctttc catgtnanaa | 480 |
| tcatctgtgg atcctttccc aatacacata cattaaatta gggctngggg aagggaatt | 540 |
| ttctttanaa tcngectcct ttggtcntga ttcancaat ttaaa | 585 |

<210> 9956

<211> 501

<212> DNA

<213> Homo sapiens

<400> 9956

gagaacacat tcgtatTTTT tgacccanac caaaaacttt tggtcctttt taacggtaca 60
 ttcttacatt aanaaaataa ttagtgataa atatattctc tttttgtaca aattcaattc 120
 cagtttttaa caccctaatt cacaaaattc atgccaatgt atgcgctgat aggctgaagc 180
 caagctgtga aacttcanaa cacagttaag ggcagcaatc aagcccgttc caggctgacg 240
 cgcagggcgt tcttacatca catcccgggg tgccagctca accccggcac gtcagcacct 300
 ggggtgaaggg agtgccgggc actgatggga tcaatacaag acacagaccc cttccgtcgg 360
 gagctggcta atctctacag tgccccacac cactgatttc tatcaggtc caagggtcc 420
 cattgaagaa aaaggtttg nccctctgaa tcctggggga nttttttcc nggcaaaggc 480
 centnttttt cncaaaccnc c 501

<210> 9957

<211> 553

<212> DNA

<213> Homo sapiens

<400> 9957

aatatagaga actgattatg ttcacttgta acctgtcatt caaaattct tcaggatgtt 60
 taatgttcaa gtgtccatat tcccagtcct actggatgcc tggcangatg caaccatctg 120
 aatgagtggga agtataatgt ttgcaccagg tattatatta ggagccttga acccagaata 180
 tgtctgatta agtcttttag cccaataatt tgccactgat gccaaagtctg gtaattttga 240
 aggagaaagt tcaaccataa cggggtgata cagggcaccc ccgtactcaa aaaactttca 300
 aagtgccttc taaacaagtt tctctttctc cntgaatata acgtcagtca caactgatgg 360
 cagtacaatc gatccatcca tacactgctc taagaacatc ttgatgggta taatatgctg 420

tcttcatgct ctacctgcta ctaatttaat ttggtcnngt tactcttccc tggganaaac 480
 naattcntct taaatccaat tccttttnna ccaaaaanaa atgatttccc ccctgggcct 540
 ccctttaacc aac 553

<210> 9958

<211> 436

<212> DNA

<213> Homo sapiens

○ <400> 9958

ctgtgtcatg atttataatt gtatgcatgc ttgatcttt ctcacacag gcagcactga 60
 naagtgaagg aatatttggg aggatcagaa gcttggctct gattttgcca tcaacaggaa 120
 cttgatgact tcaagggagt ccccaaacc tgggtttctg tttctcaac tctaactga 180
 ggggctanat gcatctggt tagttagtct ccatgatggt ttagttcgtc tccatgatcc 240
 tgtgaatttc agatgttgaa aatctttgga aaagccctga aagatgaaca ggtaggagtt 300
 attgtctata ttttaccat gaggaacta aggacctggg aatctanang gctcattanc 360
 ttttgaacca gtactagcaa tgaattcatc tgaattctgg tccnaactc ctagcatgan 420
 anaaatttga nctttc 436

○ <210> 9959

<211> 526

<212> DNA

<213> Homo sapiens

<400> 9959

gggcacatta taatatttaa tattctgtag ttttaatttc tgaaccttg gnttataaat 60
 tttctcaac ttacatttaa aaatgtatca atgcaccttc ttcagtagta ccacatgaaa 120
 atataaacct cgttcttcca tatcttctac gcaggaanag tgaatgaata gtaccctaaa 180
 tatcccgcaa agttactttg tgtncctgac ggaanattag ggaaaaacaa tccacctcca 240

| | |
|---|-----|
| tatcttgagc agtagttaac tagtcttcta cctcatcttc ccaaatatcg tegtcaacat | 300 |
| ccacagcata aaacagccgg ttaaaacatg gtgaacaggg tcattgaaat gtttgtaagg | 360 |
| gtttgctcta caaaaaaac catgcaaate cccagaaata ttgcatacac cngtacetgt | 420 |
| ctcctgttac atcccgccta attctctatg ggantttccc cacatggggg gctctttgaa | 480 |
| ttctccctan ccaccctaa tttcancctt ccnanngcct cccgna | 526 |

<210> 9960

<211> 558

<212> DNA

<213> Homo sapiens

<400> 9960

| | |
|--|-----|
| gtgctaaatt aatcatagag cctttaatcc actagtaatt tggagtgaat tttattaaga | 60 |
| agaattaatt gtaagtacat gttactttc gtgtcaggat aaattgcac ttttaaagct | 120 |
| aagtgatctg tgtacattgt gatagggcct ttcactttgg ttgaaatctt aggtttgaaa | 180 |
| ctgtgcctgg tttacagtaa ctaaaattaa ctctagctgt gtggtccttt atatagttgt | 240 |
| tatcatccca atcagatata tctcatctga tgtcaacttc tgagtccaat aatcagacta | 300 |
| nctccanaaa gcacaggga agtggtgtgg acctctangg actgccctct gctttgtgga | 360 |
| aaggcttggg taattttcca ttanagattc aaccaaccac cgaccaacc tggaatttaa | 420 |
| taacaagctt tttgttgata agtttatcnn tgaaactagc tatctgttct aagggaactgn | 480 |
| atcttccttt gaaacacccc ggcttnaaaa atccnctgaa ataaccnttg gggaaaactt | 540 |
| gtttaaaaag gnnntttt | 558 |

<210> 9961

<211> 583

<212> DNA

<213> V

| | |
|--|-----|
| aagaaacagg tctcactctg tgggccangc tgggantgca atggganaat catagcccac | 60 |
| tgtaaattca aattcctggg gccagcaat cccccctcag cctctgggag tagctacatg | 120 |
| tgcgaaacatg cccgctaatt tatcttaatt ttttagaant taggtcttgc tatgttgccc | 180 |
| <hr/> | |
| aggccggtcc tgaagtcctg gcctcaagcg atcctcctgc gtcagccacc caaagtgttt | 240 |
| ggagtagaag tctgagctac cacgcctggc cctgaaagct attttatgga agaatttaaa | 300 |
| ctaaagatct ccaaataatta ttcataatta catacccatg ttggtatcta tgtttactta | 360 |
| tctaccattt ttataggatt tacaatatga caatataaaa taatcgtctg tttcccccaa | 420 |
| atagagcata agaaaaagac taaaatttgt tttatttatg gtacnaaant ttgtttctcc | 480 |
| aaatatittta aataaaatat tgaatatgct cnttatttcc gaaaatctaa caccgggtna | 540 |
| tncnaaatcc aaaatttttc ctactcnntt gnaaattgaa ttt | 583 |

<210> 9962

<211> 477

<212> DNA

<213> Homo sapiens

<400> 9962

| | |
|--|-----|
| cacaggatga caaactatat ttcaaaactg aaaaaaagca aaatgtttat atctcactcc | 60 |
| tgaacaaaaa attaacatca gacttaagaa aataaggcag atactagtag tactaagttt | 120 |
| tcttgaaact gtaaaatata tataaaaatg aaaagatacc gaatgtggac agctccacat | 180 |
| tgatcaacaa atgttaacat tctcaatctc tticattgac tttaaaaact atgtnataga | 240 |
| aacagaaaat gaactaatac acaaatgaag tacaaatatc ataattttca gaaggtttga | 300 |
| tttttcgagt accataaaaa aactgaaata taaatatattt ggaaatagtt ctaagaaata | 360 |
| aatatgaaaa tattttgttt ggtgtcntaa cacanaantc atcctttttc cccaaatgtt | 420 |
| agggatccat tattttatga attaatttgg gggnccttgt tttatccata ttgnct | 477 |

<210> 9963

<211> 528

<212> DNA

<213> Homo sapiens

<400> 9963

| | |
|--|-----|
| caaggtgagc ctgatcacag cctcggtagt atttattttg aaataaaaagt tcccatccct | 60 |
| tgtaggcctc gctgtgaggc acaacgtctt cgaggggaag ttgaantggg gtcttcttat | 120 |
| tcaactgggcc ctaaaccgca ccttctggta tcttctaagg caattctggt accgcactgt | 180 |
| gtctgggttg gcctatttaa atgtctganc cagctgttcc agnatttcaa tgantttctc | 240 |
| ctcttcggcc ggtgaggaag accctgttnc gaaaggcaag tntgtaaaaa ctggcttccg | 300 |
| atctaaaagt gananggaac gcaaaaangt gtgagctgct gcancgtggc tgggtccatg | 360 |
| tccctgtgct gctcangcct tgaacgaccc tgctggantg gcagcaccct acagctgtta | 420 |
| aaccccatcc ctgctgtcaa aagtcccnca nggatcaggc ancatggatt gatatnttaa | 480 |
| ntgcatttgg gaactgggaa gctgcacca ggntngacag gaaaacac | 528 |

<210> 9964

<211> 581

<212> DNA

<213> Homo sapiens

<400> 9964

| | |
|--|-----|
| aagaaattag acttttatca atacacaaat aattttactt aaaatcaacc cagttacata | 60 |
| tttttaaaaa attgcagaac ctctccacac caatgtccac agcctagaac aggttcatgt | 120 |
| gaaacctgca gtcctacccc ggagcatcag ttaagtgatg gtccaggtac tcaactgacac | 180 |
| gtttctcttg acaactgagat ggtcgcaaac aaaacaccgt tcttgcctgg atgaagcaag | 240 |
| agttcacata aaagagcttt ataaaatgtc tatgaaggag aattgataat atcagaagag | 300 |
| ctccagcact tcaattgaat ataatcctct attattcttt tcttgattta atttctgtag | 360 |
| ctcccgaaaa cttacttcaa tcttggtgag ctccagaataa acagatatct gagattttac | 420 |
| aagcttgtaa agatttatca gtagcctctt tgcttccgn atcattacac aacagttaaa | 480 |
| ttcgctccag aagttgactt tcccatccat aatctggtcc agggaggggg tgtttccng | 540 |
| aaaatcttnt tcntttcgca cctccnggtc ggaaatcaat c | 581 |

<210> 9965

<211> 589

<212> DNA

<213> Homo sapiens

<400> 9965

```

aacttttttg taattttatt gttttggaat atagttattt tcataaaagt gttattcatg 60
tcaaaataca atggttttgt actgttattt taaaatacct taaaatctta tttcaatttc 120
gaatatgaca aatattaaca gctataaccc atataacaga agttctcttg atctttaata 180
attttcaana atgtnaaggg gtactgtttg aaaacttcag gtgaggaggc agaatctgca 240
agacttgctg actaactaga caaganaana aaggctggag gangaactca ngatggctct 300
tggatggtac ttgaaatang caatacagga aatgaaaaca gtttangttg aagggattgg 360
aaaaagaagg gntaaaaaaa tttggtttaa tttgaagtgg tgagtcctac atgaaattta 420
tgaaaaatct ggaattccaa aaattggctc attctaaaaa tacnaaatgg catntttgt 480
ttcntttnaa ctgggggaaa agattacctn aaaccctat tttgaacccc cctttgttn 540
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<210> 9966

gcatacgctg agagaaccgt caatatgcct ttgttcctgc tgagggatct gccattctgg 360
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 gatcatttct atataaaaact acnattagct gaactatggc caangtcctt gaacataaan 480

ccttttctnt ttcattgcat cttataagt taaaagccnc taccgnnaat gccgcctatc 540
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<210> 9967

<211> 588

<212> DNA

<213> Homo sapiens

<400> 9967

gttttttatt taaaataatt ttttaatcgg ctgatagttt taaaattatt taaaaacact 60
 atgggggggg ggatgacca ncaatataaa ctgatattta ttaatttaa aagccaatta 120
 ggcatgtcct gttatcccag tggaaanata taaantant atgataatga atgtgggctt 180
 tgaattttta aaaactttca antcttggct atntcactag ccaacaattc tgtttcctca 240
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 aaacagtntn ttgtggataa aggtacaaat aaaattatan atantctctt cnttccaaaa 360
 aggggggaaa gtatttcttt tcaaacttgc caagggggan gaatgtaat gctantcat 420
 tcttctant aacaaatnaa gtaatggttt caaagggtact gctcagtcca aaacccaaat 480
 tcccattag gatccccctt aancetaaat cccctantc ctttttttaa aaaaaatta 540
 ttaaacttna acccccactt tccaacntga atcttaactn taaaaaaa 588

<210> 9968

<211> 267

<212> DNA

<213> Homo sapiens

<400> 9968

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 gcttcccata ctgccctgaa aatgggtggg atganggcat gcaacaata tgcaaatgac 180
 atgcaaacca acccanange ctctggcaca tccatgggtg ctggaaaaat caaaacctan 240
 tggcctnnga aggcnacngg gcaccca 267

<210> 9969

<211> 449

<212> DNA

<213> Homo sapiens

<400> 9969

aattatactt taagttctag ggtacatgtg cacaatgtgc aggttagtta catatgtata 60
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 atgctatccc tctcccctcc cccaccccca caacagtccc canagtgtga tgttcccctt 180
 cctgtgtcca tgtgttctca ttgttaaagt gctaaacatg gtggctgact gcttctgagc 240
 tggaagtga ctgagttgaa agttattggg agacagatac actattgtat aaagtggaaa 300
 ctgaggaatt attcatgctt ccatggtncn ntattctcat gtcccttcc tccaccttcc 360
 acaagcttaa ananaaacat gccttgaaaa ggncaaggg tgggtcttta tcaaaaancc 420
 nccccaccaa acnctaagc naccatttt 449

<210> 9970

<211> 582

<212> DNA

<213> Homo sapiens

<400> 9970

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gcaatctgct tggcacatt tttcttaatt ggctggtaat cactctcttg actcttggtt 180
gctatgaatt ctttcacgc aaaattatit tgctcaaggt gttgccactt tctctccaaa 240
tttgtaagct gagaatgtgt ctcattttct tgcaattgtg tttttagtgc ctcatactct 300

atgttttgct tctccattat tttcttaaag gcatttctgt gggttgataa tatcattctc 360
tcctgatgta atttctttat cttttcttca cctgatgatt ttaaagctgg caaatcatta 420
tatatctcca gatcagttgt catttgctta attttgcttt ttaaaaaaag ctgttcctcc 480
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<210> 9971

<211> 596

<212> DNA

<213> Homo sapiens

<400> 9971

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aggtaaaggc acattgaaag agaatgcttt ttaaatacaa ttttcaggga attcacttta 120
catgtaaata aagcagaaaa tgcaggaaaa ttattttgaa gtttttcac acttaacaat 180
ttctgggaaa caaagttcat cctattttcc catagaggac ccctgttaaa atataagatt 240
atattccctt atactaggat tcagcattca aataaatcac tagtccaact tcaatgtcgt 300
agaacccaaa aaaaatataa ctatcctaaa aatatataat ttaaaatata atttatagtt 360
atactaaatg ggaataaaca tatggcacac attaattaca aaggatactt catgttacta 420
gaaagtgcc tgtaagaaaa ttaataaatg acctaaaact aaagcattta ggataacaaa 480
catcctttta cttgctatct tttaaaatgc tgcctaggga aatccaatgg cccttaaaaa 540
aaattgttcc aatattccac ttttttgaa acttttnccn gaaataattg aaggcn 596

<210> 9972

<211> 424

<212> DNA

<213> Homo sapiens

<400> 9972

| | |
|--|-----|
| gtatgtaaca gaacacattt cagattgtat ttaatttaaa tatttgtata taagagcaaa | 60 |
| tgtctgaatg tggcctgaat caagtttaaa tattgttggc tcatactgat tatgggtgcct | 120 |
| aagagagcta tataatataca catgtaaagt ccattgtttt tattgtcctg agttgtctta | 180 |
| aacctgcaaa atatacacta cccatttttt tttccattg gtttcagact tggttcaatt | 240 |
| aanattgggtt ggggattttt ctcttttctt tattaacat gttctggat canaatgggtg | 300 |
| ttccttctcc atcagaggct gggaaacgta ttataattag ttttctccc ccataccttc | 360 |
| ccccaagaac aatgaaaaat aantnaangg tggaacnttc ctccnttaaa attnttgcnt | 420 |
| aacc | 424 |

<210> 9973

<211> 550

<212> DNA

<213> Homo sapiens

<400> 9973

| | |
|--|-----|
| gaccttctca atgactaaaa cattgggagg ggggaaaaaa gaccaagtgt tacacaaaan | 60 |
| aatttttagtg aaattattgt ttttattgct tttaatccct tgacgccggg agttgggatt | 120 |
| tcccggcaca cttccattgc cggcaatgan acgcaccgtg accgccagcg ccaaggggtt | 180 |
| aacatatact tgtaaaacca tataactctt aatttgtacc cgtgtcttta ctcttattga | 240 |
| tatatataat tatatataca tatgaacat atagctacat aaaacttagc aacaataaaa | 300 |
| ataacacaca ttaatacaat tcaaagaaaa attaaccctt tatgctggat aaatctcatt | 360 |
| tctgtttttt tattgtcttt tatgttaaac tttctacaaa aggatgtata aacgggtaag | 420 |
| tanaaaatct ctatctacaa aatgttttct cttttaagta ttacattact tgggtgttct | 480 |
| ttaatanact gacattttta ncccnttaaa atccntttac nttatacccc gcnaaatact | 540 |

<210> 9974

<211> 201

<212> DNA

<213> Homo sapiens

<400> 9974

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cagttggagg catgcagaca gggcacaggg cccagcctgg gcatgcccc a gacacacacg 120
aggggacagc tttagaaaag gactgaccaa caccagggag gagcagggag ggagggccca 180
gggagggggca nccnnnnctn n 201

<210> 9975

<211> 460

<212> DNA

<213> Homo sapiens

<400> 9975

gtaaataaac aatttttattg ttcatcttca catatgtgaa agacatcact acagcatcca 60
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cttaacttct aaacaaggaa aaattaacat tgttttttaa acttactgag ttattatgca 180
tctaattgcaa gttttatcca aaagtaaata taacatgaca tatccctaata acaattaaat 240
aatctataat taataagctg agaattgggg ttcaagacca cagtttgaat ttttaaaaaa 300
tataaataag tccattagca cagtaagttt tgactacagg cctgttatca atctatgtca 360
tgaagtgaca ttactttaac ncattaggaa acanagggtta ntaacaatca atacctencc 420
tttangtcta ttgctgatac caattganat gtnttttaaaa 460

<210> 9976

<211> 308

<212> DNA

<213> Homo sapiens

<400> 9976

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tcagttgggt ggactgatga ggnaaaaaat aaattccttt taaaaaacia aactggagcc 120
tatttaciaa acatgcaaag ggagaatttt aagcagggtg tactgcagaa ctgctcagac 180
gtgaatacag ctgagtgaca gaatatacct ttacttctac aaatataggt cctncctcca 240
gactttctgg aagaaatacn ttttcagggt gtggactata aaatggcnta cantgctaan 300
accnanac 308
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<210> 9977

<211> 600

<212> DNA

<213> Homo sapiens

<400> 9977

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ggcagagggt atcttcctga aaatcattac ttacatttga agaagtatta gcttgggtct 120
ctacacttgt gctatcttca tttattaatt ttgtaataaa caattctgtt agttcatcca 180
tttcatcttt ttcatttttt tcaacttctt ttigtgaaac tgtagctgtt gttcttgaat 240
tatcattgct ctctgataca cacgtgtcag aatctttcac atcattctta gcaccttctt 300
gctcagaacg tttcctttac ttgtgagttg caacaccgtt tgaatacaat aagaagattt 360
cgggtgtgtg atgtaaatgc cttanataat ttatggcact tataatgtct aattatattg 420
ctttcacttg taacaactga agtacatccc tttatcatac atggaatact ggggttacca 480
aatctggctg gtacactcaa anaggggatt cattcctanc cttataaaa aaaacttgcc 540
tnccccentt ncaaaaaata tgggttattt nctccaatct gcaaaacctn gggttctggt 600
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<210> 9978

<211> 598

<212> DNA

<213> Homo sapiens

<400> 9978

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gcaacctctg cctccccagt tcaagtgatt ctcgctcag cctcccgagt agctgggact 120
acaggtgcat gccacatgc ccagctaatt tttgtatatt tagtaganat gggatttcac 180
catgttggcc aggatggtct caatctcttg acctcatgat gcaccacct cggcctccca 240
aagtgtctggg gttacaggtg tgagccacca cgcccggcct actatttctt tctgtatgtt 300
cttgtgggcc tgttgttttag ctcccaacta taagtgagaa catgtantat ttgtggggaa 360
aagananac ggattgttac tgtgtctgtg tngaaagaag tanacatagg agtctccatt 420
ttgttctgta ctaagaaaaa ttcttctgcc ttgaaatgct gttaatctat gaacttaccc 480
caaccccgctg ctctctgaaa acatgtinctg tgtcactcca gggtttaatt ggattaaggg 540
ctatncaaaa tttcttttgt tnacnnaatc ctgaattcnc atgcncttta aaaatctc 598

<210> 9979

<211> 526

<212> DNA

<213> Homo sapiens

<400> 9979

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cacagaatag acaaacatta nagtttgana gttttccctt gagttttgca aaacaaaaca 120
tctagtaact tcagtattca ccaggaaaaa ttccccagtg cctctccctc cagccctttc 180
tcctgcctgc cttcaggatc accccttgct tcataggttt tcatttttca gttctccttc 240
ttggatanan tctatcctgc ccgcagggtga nccctctctt cccatgccaa atttccatct 300
aacccttggc ctgaaacagg tgcaggcttc anccaantgg aaaactgctg ggggtgggtgc 360
tgcctancct ttgacggttg ggtaaggaaa aaacgggtta aanttagggt natgggctcc 420
attctgttgg ccaagggtta accctggcttc tctcattcaa tttncncat tggcaaaaaa 480

tgtaaccctg ccattnccttt atnaaaaatn tataaanttg gccnc

526

<210> 9980

<211> 515

<212> DNA

<213> Homo sapiens

<400> 9980

aatgaaagaa agttgataat ttaggaaaac caatggtatg acatgtttta ctagaattac 60
aattcaccaa atcttattga ggggtggggt aagaagaaaa cctgaaggca ggcaatgcat 120
taaaagcatc aataaagatt tctggtgcta ataaagtcca ctgacaataa gaactttact 180
ttcttcacc taaagaagtt tccttaagta ctaactttta aaagtccatt ctgtcatgat 240
atgancctgt tcaactgaacc gtgaggaaca aggatgaaaa ataagaatag aaagagtatg 300
gttcagcctg agtctaagtg gtctggtgtt ttatgatgac tctaccaa atgtttaattta 360
aagtctta attttatttt taattataat gttgccaact gtctgactga ccttgaanga 420
tcagggattt ttccacgact ctaactgaac acnagatcct tctcaaacgg gganaatgaa 480
atgacnccgt gttctatctg cnccatttnt ncaact 515

<210> 9981

<211> 488

<212> DNA

<213> Homo sapiens

<400> 9981

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aaaactccca cctcctgggc tcagggtgatt ctcctgcctc agcctcccaa agtagctggg 120
gattacaggc aggtgccacc atgcctggct aatttttgtt ttagtanana tggggtttca 180
ccatgttggc cagggtggtc tcaaactcca gtgatccacc cacctcagcc tcccaaagtg 240
ctgagattac aggcattganc caccacgcct ggccccaaac tgactcttga ccaaagaatc 300

| | |
|--|-----|
| tgatttggca aaccaaactct tagtgcagtg ttcgctcctc gtccccttac ccagaacatg | 360 |
| attcagatcc taacataaac acaaaaacag gtcnnggaac caaaacactg tggctcttgtc | 420 |
| tattatacaa aatattgana taatgttcac aantcnttct gttttccanc aattgtgacn | 480 |
| attttgaa | 488 |

<210> 9982

<211> 547

<212> DNA

<213> Homo sapiens

<400> 9982

| | |
|--|-----|
| gactattgca tatcattttt agttgangtc aaaattatta aagccctatt tccccaatta | 60 |
| aaagcaagga nttctattag tatgtcttct tcattttatat cccagattaa tataaaccce | 120 |
| gtctagangt atcacttctt tccaaactta acttcatttc agcagcatac atggaatatt | 180 |
| gacacttttc aaagttttta tcccagaccc attagatcta caagatacta naaagaatta | 240 |
| gagcaaagtg agtgggcctg ggttttagg atcctcacia acttctcttg gattcttctt | 300 |
| ttacaaagtt tctctaccat acaaacatac gttttaaaag ccaacactat tgagggttagg | 360 |
| tatgcccttc aggggtgttg cctaaaatgg ttaaatecca ttcagcttaa aggaagctaa | 420 |
| taatcatggt gtggaatttc tccataccan cagcatggct aacgtttgtt nttttaaggt | 480 |
| tatgttctga nactccaggt taantttgnc ctgacccttn aaccttaanc ccaaattgaa | 540 |
| aagaaaa | 547 |

<210> 9983

<211> 589

<212> DNA

<213> Homo sapiens

<400> 9983

| | |
|--|----|
| aagctaata gctatcatta gtgttagtgt actttatgcg tggcctgaga caattcttat | 60 |
|--|----|

| | |
|--|-----|
| tcttccagta tggcccaggg gaagccaaaa gattggacat ccctgattta tgcagtctcc | 120 |
| anaggaaaaa ttcctgactc acctaaatca cactgaagaa tatatcaata caatggtcctt | 180 |
| attaccttaa aattaacctg ttaaattttc tttccatggt ctctaacctt tcctagtcaa | 240 |
| <hr/> | |
| actggaaaat atccaataaa attagtgtag agaaaccata ctcaattcta taacgaataa | 300 |
| tctctcatct tctcacgaat ttcctggaag taatgagtgt ggactgaaga agcagacata | 360 |
| tagcacacag actgggtccc aagttacaag cacactgacg ttatctagct tcaaaggcat | 420 |
| actgcctttc agantctaaa acagancgat gtgcatcata aganatagcc tatcagattc | 480 |
| ctagggccca aatgttccaa aggtcnnttt cctaaaggca tgtntatttt naacnaatat | 540 |
| aatttggtt ctaatctgac cccatttaa tgatcactng ggaggaant | 589 |

<210> 9984

<211> 591

<212> DNA

<213> Homo sapiens

<400> 9984

| | |
|--|-----|
| cttttttttt tttttttttt tntntttttt tttntttga aaaaattaat ttattttaag | 60 |
| ttaaggatct ctacgtaaat ttattttggt atcaaacaac tgcaattagt gatgggggga | 120 |
| taaaagcatc cctaattgtg gaaggatggt aatttatfita caaaaactat acaaaattag | 180 |
| attaattata acaacaactt atcaaagggt cctgaaatta attttgcttt tgaaaaagta | 240 |
| tcaaaagtct tcaaatccan aatgatagca ttttattatt tctgattcat ggaattatag | 300 |
| cacatcanat ctttaagcaa ctacatcana taaaatccta nataataaaa tattcttcat | 360 |
| ttcctgacag cttggaatgt aaatgaaaac ttgttcatt tttattaaan aaaaaaccta | 420 |
| naataatgca tccnatggta tcaaatacct gttaaaatgg cgtgtctgct ataattaaac | 480 |
| atgggcnatt aattctacat aattaaat ggcctaaatt aatccccct taanaaaaaa | 540 |
| ttttcccca tcnttccaat tnttttttt cccggtttta antaagaaan t | 591 |

<210> 9985

<211> 529

<212> DNA

<213> Homo sapiens

<400> 9985

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gagcattcac caacaatttc tttatttaaat aagtgtatct tatatagaca atcttttaaa 60
aaataaaatg ccttatttgt gttgcataca tttattccga gggagcctcc ctacaagtca 120
agagtattct cttagccaga aatacttcta ttgctagaaa cattttttaga acagaacaga 180
tttttcctgt tatcatggct gcatcaaatg ttaccctgca ttttaactaa aatggccaaa 240
cattttcaaa gtcatcatgc actacaagaa tctaaggcag tgtgtctaaa atgccaaacc 300
cagtacattt agttaaatat ctgggtcaatt caaaaagcaa aataaattga ttcaattggt 360
taatcagtta aaccatctgg ccaacataga gtgaatcctc aaaagggcaa catgtcctaa 420
taaaaacgtg tgacangatn gtccaancac accccanggc cacacagaaa aaangccatt 480
ttatcttctt gaagangtct ggttanaatc cgttttggca aaaattttc 529

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<210> 9986

<211> 479

<212> DNA

<213> Homo sapiens

<400> 9986

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ctgagatgga gtgccactct tgttgcccag gctggagtgc aatggcgca tctcagctca 60
cttcaacctc tgcctcccgg gttcaagcaa ttctcctgcc tcagcctccc gagtagctgg 120
gattacaggc atgcaccact acgcatggct aattttgtat ttttagtaga nacaggattt 180
caccatgttg gtcaggctgg tctcgaactc ccaacctcat gtaattcacc cgtctcagcc 240
tcccaaagtg ctgggattac aggtgtgagc caccgcaccc agccagaatt atcttatgtc 300
tggtanaaat tgaggacttg ttgaaggctt tgccatattc ttcacactca tagggttcct 360
cttcagtatg aatgttctta tgtttantaa naattcanga cggttnnaag ctttgccaca 420
atcttcncat ttgtaggttc tctccnctat gaattacttt gttccataaa ggttgaaga 479

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<210> 9987

<211> 601

<212> DNA

<213> Homo sapiens

<400> 9987

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tcgcctggta naccacaggg ccaatcacca cagcttcttg tnnagaacat ggagagtgcc  120
nagatcacca tcaggtgccg cttccttcct gtggctttcc atcttccagt cagcctggtc  180
ttttgccttg aagggcccaa aacaacagcc ctgggctatc atcttcatcc caaaagcgga  240
aaaaataggc angcaaaaac accgaagggt gtctcaaaaa angttcccat caggttcnca  300
gggcgcccgc tgtncctctt gganaatnca cttcaatcac cttctgcggc tccttggctc  360
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tgcaccatca ctctttcttc naagccagca ctgggaatgg cttcactttt ggtggaagaa  480
ttcatcnenc ggccccatac ctgggtgagg gcccgatttt taacaggtn ttcncttaaa  540
aaaggttaac ttncatcca atttcccccc ttanccctg ttacctcttc ccttttgttt  600
g                                                                           601

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<210> 9988

<211> 446

<212> DNA

<213> Homo sapiens

<400> 9988

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ttctgtgtca gcactttaga tacgtactgt ttctagttta ttggaatctt ccattttcct  120
ttttacaaa aatatcctgg caggatctga aactgtttct ccaaattgtct aaaatatatc  180
tgtcacacaa aatgaccccc aaagagaatc ctgggaagaa aacaatttct cctcctccat  240
catccaatta agtattttatt aaacagtcnc tatacttaaa atacctttcc aggttaccac  300

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ctactaagtt aacagactac tggttcaaac accgcaaaga aaagcctgaa actagataga 360
aacaagaaaa acctcctttt tttttngtgn accttttngt ttgtttttac ntgagaaaaa 420
gaaaacanaa ctgaggnaaa aaaaat 446

<210> 9989

<211> 559

<212> DNA

<213> Homo sapiens

<400> 9989

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atgctgagct aaggagctt cacatgaaag cctacaaata tgaggaggaa aaacctagcc 120
acggcacatt tccaacaatt tcttaataat tcctcttttc ttaaccacag aaataaatca 180
gagcctttta aagttacctt acagatacca gcttctcaga aattattttg cagttatgtg 240
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agtccactga aggaatttaa cagatttttc cagaaacact taagacatct ataattaggt 360
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ttccccattt ccatgccca atgaactggn ctccttccct ttgaagaagn aaaccnnaat 540
gactccggaa agggtttgn 559

<210> 9990

<211> 533

<212> DNA

<213> Homo sapiens

<400> 9990

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caaatccttg ttttaaccca tatactccat aaaataaccc tgccaaggtg ggactgtcct 180
 ggccccctgt ctctaggtga gganactgag gcaganaggc taaggacac gctgcaggtc 240
 acgcaggtgc tgagcggcag tgcctcggta ttagctccat gacccaagct gttgacntct 300

gcccgggctg aantcaccac ttccccaggg ctccctccgc ccagtcggan ctgttctccg 360
 ctcacctcag aatggacggc aaacgtccan ctgttctggg tcttctctc ctgggcctgg 420
 ttacatcaag ggctggttgc angtnacacc cactccatcc anggtttctn caccacnang 480
 gaacccccctg cttgctgccc tggttctccg gccacaaccc tcctngtttt ggg 533

<210> 9991

<211> 495

<212> DNA

<213> Homo sapiens

<400> 9991

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 agtgcaaggc ccaggccatg agctggggan gaagcctgac agcttgacc cnancacaga 180
 nggacgtgca gggTggctca tactcatact ggaaggcaga accatcacga tgcctctttg 240
 ggggttccca gacagaacaa ggctcctggg ctccccctgg atctccggtc ctgggaaaaa 300
 gcggccgatt cttgcanggc aaccctacc aactcccttg aaactccan ctaagtttct 360
 tggggcctgg tccccaaaaa acctgttttt gnattggggg acntggcttc cggggttaaa 420
 aaactgggaa ttccccctcc tggaattggg aacttggggg ntccggttgg ctttttngn 480
 acctnggggt tcngg 495

<210> 9992

<211> 553

<212> DNA

<213> Homo sapiens

<400> 9992

| | |
|---|-----|
| actaaagaca gggtttctcc atgttgggtca agctgggtctc aaactcccga ccttaggtga | 60 |
| tccgccccgcc tcggcctccc aaagtgtctgg gattacaggc atgangcact gcgcctggcc | 120 |
| ccactgacac ctcttgtcaa ggtctccagt gaccactatg ttactgaatg ccaaggccaa | 180 |
| gtcttgggtcc tcaagggatt tgacccagtc agcatcatgt gtcaccgaag cccctctct | 240 |
| gcctcctcct caggaacact ttctgcagtt ggcttctgaa caccagtctc ctgctttccc | 300 |
| cctaccttcc tggaaaagtc tttcnaagtt tctgtgtgtg ctccctcacc tcctccaact | 360 |
| cctaagtctg gaatctctgg ggntcaggct ttgggcccc gctcttctct taanttactt | 420 |
| gcttgggtatc tcacccantc tcataacttn taaacacat cttttatntn tacaactctc | 480 |
| aaaaaaaaacc taaacttctt ttctgaaatc ccgaatttta ttctccnaa tttaaatggn | 540 |
| ctaattggcn cnc | 553 |

<210> 9993

<211> 399

<212> DNA

<213> Homo sapiens

<400> 9993

| | |
|--|-----|
| aaaagtggct tagaacaac aatttactga gcacttacta tgcacccatc aggtatattc | 60 |
| cttttataat gtaatcttca aaatgagctg tcaaactatt ggccatttt gtgaatgagg | 120 |
| aaaatgaaaa ttaagttata taatcatgag tggcagagct gggaaatgaa ctcaagtctg | 180 |
| tgactctgaa gacatgaaaa agttacacat ttcagatgaa tgcataaact atctttatgg | 240 |
| gtatgacatg aaaagtaact gtanaatgtt accttaatta catttccnaa tgcattgatgt | 300 |
| ggacagacat tanaaaagtt tggactcctt tggaaaaaca aatccnncag ttaaaaaagt | 360 |
| cctttacttg cnatccccac cctngctan cccggaacc | 399 |

<210> 9994

<211> 542

<212> DNA

<213> Homo sapiens

<400> 9994

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tattcttaag antagcgatc aggagtttaa caacaaatgt naagtggttt tctctaaaga 180
atgctttctg acaggctttt gggttggaaa tggacaggta aatcactgtc acataacagg 240
tnagctaaga ataacttctg ttaccecaagt catttgaacc ctgtggactg tgaaagccct 300
cttggaaattt acattttaatt ccatcattgg tctggttgac ttccacattt cactaaattt 360
ggacaagatc caciaagtaa ctctcaact ctcagtcttt cacactcagg tctgtgggaa 420
agaaaggcan tgaaaccagn tntnaacaca tgccccgaaa acaattttan gatttctaca 480
gtttcctcgg ttccgcent cccaaattct acctactgg ctattnttct naaatgctac 540
cn 542

<210> 9995

<211> 529

<212> DNA

<213> Homo sapiens

<210> 9996

<211> 536

<212> DNA

<213> Homo sapiens

<400> 9996

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gttggtgttt  tggtaggcta  itaattactg  cctcaatttc  agagcttggt  attggtctat   60
tcagggattc  ggctttttcc  tggtttagtc  ttggtagggt  gtagtgtgcc  agnaatttat  120
ccatttcttc  taaattttct  agtttatattg  catcganttg  tttatagtat  tctctgatgg  180
cagtttgat  tctgtgggg  tcagtgggtga  tatccccctt  atcatttttt  attgtgtcta  240
tttgattcct  ctccctcttc  ttccttatta  gtctagctaa  tggctctatct  attcgttaat  300
ttttcaaaa  aaaaaacagc  tcctggaatt  cattgatttt  tttggangna  tttttcacgt  360
ctctatcacc  atcaattctn  ccctgatctt  aattattant  tacttgtttt  aattgctncn  420
ctgatcttag  ttatccactt  aattagtggg  ttaatgcngg  attttttccc  ttgttttttc  480
nataantttt  aagaattctg  ttttaacccc  aaattaaaaa  aatttttttt  aattta      536

```

<210> 9997

<211> 519

<212> DNA

<213> Homo sapiens

<400> 9997

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agttttttat  ttctgtgtat  acgaagcagt  ctaagaaaga  atgttatctc  tagagacaaa   60
tattgaggac  cccagaaaaa  ttataaagat  ttttaaaaat  ccttaggaat  aatccgttgt  120
aattcatcct  gagaaaataa  tactctttgc  actttaccct  tcatactcag  catatcatct  180
gtcctatata  gtcttcaatt  atataataga  aaatgttttc  taccagtctt  ctccaaaagc  240
tgaaattact  tttttcccn  ccctcagtta  gtttttcttc  ttcaactcca  aacaaactgg  300
tgtctatata  taaatcctag  atccaagatt  ccaattcnag  aaagaacatc  caggacccca  360

```

atttatatat attctagcta ccactaattt ctgtngtgct acctgtngca catgatatga 420
 nanaantcnc ttggaaattg acgttggctt tttggctctt ccaactcttt ccccatattt 480
 tcccctgttg ttggttccnt tntaaaagca tngctgcca 519

<210> 9998

<211> 419

<212> DNA

<213> Homo sapiens

<400> 9998

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 gccaatatat tttacctac atcatTTTtac ccactgtaga aaatgcatca gaaagggtc 180
 cnaacattat gatatggTca atcttactct catggantan taacctagg aanantaaa 240
 ctccngctg acttaagtat ttgtgtctgt acctaggtc actaatgggt tatgctttca 300
 tgantactag ttttaattt tatctatgca acttgtgtc tgtctgaaan aaaaatacac 360
 ttgtttcctg anggcncact gcnaggaaac ataccagtna tgatagacaa ancangaat 419

<210> 9999

<211> 545

<212> DNA

<213> Homo sapiens

<400> 9999

gagacggant ctgtctgtta ccangctgga ntgtgggtggc acaatcttgg ctactgcaa 60
 cctgccccctc ctgtcttcaa gcaattccct gcctcagcct ccggggtant tgggattata 120
 agcaccgcga accatgcctg gctaattttt gtatTTTTAG taaanacggg gtttcacCAT 180
 gttggccagg ctggtcttga actcctgtcc ttgtgatcta ccgcctcag cctcccaaag 240
 tgctgggatt acaggtgtga gccactgcac ccagtcaaaa attttttagt gttagatttg 300

caacaacatt ttttttttta atgcatgtgc atcagtaact tttatgtata cagttttcaa 360
 atatttcatt gtttctcanc atacttcaac tcattaaatc tttcccantc tttccctggg 420
 catgcataca tgtcaacatc agttcaattt cctgtccang gtacacaatn aaccctgtnt 480
 ttgggaacct ttgaaccggt cntaacttac aangggcaac ncctgttaaa aggtganaca 540
 aaaaaa 545

<210> 10000

<211> 543

<212> DNA

<213> Homo sapiens

<400> 10000

gttttgtcan ctccatccat gttccgtcca cagacatctt gttctttttt atggctgcat 60
 agtatttcat ggtgtataag tgccacattt tctttatcca atctgtcatt gataggcatt 120
 taggttaatt ccatgtcttt gcaattgtga atagtgttgc aatgaacatt cacatgcatg 180
 tgtcttttatg gtanaaacac cgtaagggtca atttatattc ctctgggtat atatccagta 240
 atagaattgt tgantcaact ggtagttctg cttttagctc tttgaggaat caccatactg 300
 cttttcacia tagttggaca aatgtctact cctactaaca gtgtataagt gttccctttt 360
 ctccacaacc tcaccancat ctgttgtttt ttgacttttt aataatggnc attcanactg 420
 gtatgaaatg gtatctcatt gtggttttga attgcatttc tcttatgaaa aatganattg 480
 anctcttttc caatgctgtt tgaacacata tatttcttgt tttgaaaaat tcgttcagtc 540
 cnn 543

<210> 10001

<211> 396

<212> DNA

<213> Homo sapiens

<400> 10001

| | |
|---|-----|
| ctanagtttt tttaatggtg ctgacattct cttcaatatg tccatgctta gcttgggttt | 60 |
| ctgggggaca gatgagtagc tagtactacc catctaaaac acaatgttca ttagttggaa | 120 |
| taatggtgtg atatgatagt cttcaanatg atgccctcaa tttctttcct ccctgcatgc | 180 |
| <hr/> | |
| acatgctgct gtttacattg acaggtagag tcgaatctcc catttcttga atctgtgctg | 240 |
| gtcacaatga cttgcttttc cnataggatg gagcagaaat cgtactctag gacctccaag | 300 |
| gctaggtcct aagaancctt gtagtatttg ccngtgtgtc ttggganaaa ctaccacctt | 360 |
| gtgancactc cangtnacat tgaaaagtcc ganaag | 396 |

<210> 10002

<211> 536

<212> DNA

<213> Homo sapiens

<400> 10002

| | |
|---|-----|
| ggtgtttcgg tcttgttgcc caggctggag tgcaatggca cgatctcggc tcaccgtaac | 60 |
| ctccgcctcc tgggttcaag caattctccc tgcctcagcc tccaagtag ctgggattac | 120 |
| aggcacctac caccatgccc ggctaatttt tgtatttttt agtaaaaaca gggttttgtc | 180 |
| atgttgggtca ggttggcctc taactcctgg cctcagggtga tacgcctatc tcgacctccc | 240 |
| aaagcactgg gattacaggc atgagccacc acatccggcc agcattttta cagataatag | 300 |
| ancacattct ccattgaact cttcanaaaa atgtinctgga cttgcaaac caatgactga | 360 |
| aatgccatgc tgctcctctt ttaattttga aagatcttct tcatcattat ctccctcccc | 420 |
| aagttttnan tgtgggttaat ggaaattggc tttgttggaa ttgccccccc ccgaagccnc | 480 |
| cnccccaaaa aataagttcc gcccaaaaan ctttcaaaaa antttttttc cncant | 536 |

<210> 10003

<211> 522

<212> DNA

<213> Homo sapiens

<400> 10003

| | |
|--|-----|
| aagttgacaa ttaagcagac tttatatcag catctaactt ttttaaaaaa aaggcaagtt | 60 |
| acaatatagg aatttttagag aattgatgca tttgagaaaa gatgaagcag atagatatat | 120 |
| aattgttcac agtggtaaat tataggtggt tttctcacat tttatgtcag tttcttgtat | 180 |
| atcaaaaaat acattcatac tatgagacac aggaatcttt acatccaaaa taatttgata | 240 |
| cagatgcctt aacattgctg aatgagacaa ctttggaag attcttgttt tgtgattcct | 300 |
| ttttaccctc taagcacagt gctttgttaa cactgtgtgt gtagtaaag tgtgtgctgc | 360 |
| ttaaggtaaa gaattctagt aaactaaatg cccaagggtga ctgcgtgatt ccatgccaga | 420 |
| caggaaaaag cagtcatgct ttttgnccct anctgaacgt ttgtttcccc ncaaactatg | 480 |
| ttttntccn cagaaatatg aaatatgcta natccagttc na | 522 |

<210> 10004

<211> 510

<212> DNA

<213> Homo sapiens

<400> 10004

| | |
|--|-----|
| gagatggagt ctagctctgt cgcccaggct ggantgcagt ggcgccatct tggctcactg | 60 |
| caagctccgc ctcccgggtt catgccattc tctgcctca gcctcccag tagctgggac | 120 |
| tacaggcgcc cgccaccacg cccagctaatt tttttgtatt tttagtaaan acggggtttc | 180 |
| actgtgttag ccaggatggt ctgatctcc tgaccttgtg atcctcccgc cttggcctcc | 240 |
| caaagtactg ggaatacagg catganccac cgcgcccggc caagtatata catattttta | 300 |
| ttcataatgt ggacaggggtg gtcnacagag aaaacagact tatacatgaa agatgaatta | 360 |
| atgaatgaga ttaaaattgt tttataattt ttacatttaa atccttgaaa attaaaaagt | 420 |
| nagaaatn atagcttaaa tatentatn ttaaaaatta acttgcctta tttaaattaa | 480 |
| atganaaant tttccgtatt ttttgtttna | 510 |

<210> 10005

<211> 550

<212> DNA

<213> Homo sapiens

<400> 10005

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acaaagtctt aatacgaact gtttaattgt tataacaaga tttagangc aggggtangt. 60
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tttttcacaa tcactagatt tacatacaat tataggttaa ggttctccgt gtacacatac 180
agtgaagac attttccaaa taccttttga tgtagaatgg aacctgagac aaaaaaatca 240
cttaagaaat caaatctcat ataatggaaa tactttaacc acagcattca cacatttgac 300
tgtggattcc aaatgcttat ctaaacagag gcaacgcaat taaactgcct tcactcaaaa 360
tggtgtcaga aggcaactac cctatttact anccactgat aagttatgac aacactatnt 420
cataacctgt cctatatttc ttttaacccc ccagccatta ggattangat tccccacccc 480
taagggnnta tcccgaatgc cttantgccc caaccnttaa aaatccaaat tgcattgccnc 540
ttgaaaaact 550

```

<210> 10006

<211> 231

<212> DNA

<213> Homo sapiens

<400> 10006

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agagttgaaa tatattcttt attttcagga tggaatagg atagggaagg aggaaagata 60
cctttgttag ttgccactgc agtaccatcg aaagaacatc ctggggaaac aaagaggat 120
gtgtgctaca ggaggggttg gtgactagag acttaggtcc cggaggcctg gacaccaggg 180
tcaaaaaggt gtacagggcc cagactcctg gttctgaggg agganntnnn n 231

```

<210> 10007

<211> 487

<212> DNA

<213> Homo sapiens

<400> 10007

| | |
|--|-----|
| gtttgtatat ttacttgttt attgcccattg cctcccccca gcaagaatgt aacctccaag | 60 |
| aggacaagtg ttgtgtctcg ctactcaca tctgtggcct cagtgccttg cattgccacc | 120 |
| cccacgcacc ccaccgcccc cagagtgccg caaanagagt gcaaaataaa ttttgttaa | 180 |
| atgaatgatg aagggaatgg tggangaggc tgtctgggcc ctttatggaa ttacttcagc | 240 |
| tcagttatgt ctatttcttt tttttaatcc tctctctctt gcccgtcagc ttccattcat | 300 |
| tccccacctc ccatctccag ggaaggggtg aaaggatgga gacagactga cgggttgcct | 360 |
| ggctgangct tgttttaggg tgtggagcaa ccccanccc aactgaactg tctgggcttc | 420 |
| cgggaaggaa gaaaaaccnn tccgtcccaa aaccncnaaa attanttggt gggttcnaaa | 480 |
| aaggcct | 487 |

<210> 10008

<211> 543

<212> DNA

<213> Homo sapiens

<400> 10008

| | |
|---|-----|
| aattttcttt acaatattta ttgaaaatt ccaacagtac agattgtata taaagactct | 60 |
| aattgagatt ctgttttcat tgacaaattg ttaaaattct taactgccag tgggtgtagc | 120 |
| tcacacttgt aattccagca ctttgggacg ctgaggctgg cggattgctt gaatcccgaa | 180 |
| gttcaaaacc agactggaca acatggtaaa acccatctc tcatgtaaac ccaattccaa | 240 |
| tttcatcacc atttcagaaa gatgacgatt ttctaatttg agtgactcca gctgatccaa | 300 |
| aatctcctta tgctctactg ctttgtcttc tgccttttgc atctctgctc tgaagtcctt | 360 |
| tccgtgtctg angaaagaac ctttggtgga agcaatagtg atatctcgct gatgttactc | 420 |
| ctgagttaga tgggaaattc catcttcatt ctttctantg canaactgtt actttgttcn | 480 |
| cccgttaaat ctgttcttcc acttcttaac cctgccttgt ntccctggta ttncncccc | 540 |
| ccc | 543 |

<210> 10009

<211> 538

<212> DNA

<213> Homo sapiens

<400> 10009

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gcgttttcat actctttatt gccaacggtt taaaatggtc aacataaaaa aaaagacatt 60
ttgataataa atactgctct ttgggctgta ataaataaaa agtttattaa caaggaatgc 120
acttttccag ccacaagtat cttcaaaaat taatgaaaaa aaattatata tggccatagt 180
tcacagttac gcagccaaaa gctgctccaa ttacagcctt taaacaacat ggganccttc 240
tcccttctcc ctccccttca ggaagtatat tcacagttcc aaagtcctct ggctgaaatg 300
ctctcaccag aaaaaaattt agaaatcant gncctttct gcaaaattgt ctgaaaaaac 360
cttttaaaac aggtttctca aggaaaaact gcattctggt ccctcttgga ttgtccaaan 420
tcaaaaatgt ntgccttaac ctgttctggt tccaccantc caacaggccc angggaaatg 480
ttttcgtacc acacattttt ctcttctcca aatactctna ttatcctttg ggtcccg 538
```

<210> 10010

<211> 483

<212> DNA

<213> Homo sapiens

<400> 10010

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gtttctctaa aatttagaat cttaaactaa atcctttatt tcaaaaacaa acataaaata 60
atttcccagg canaaaaaaaa gnttganang gaaacgttct tgtttagcagt cccttctg 120
ataaatgggg ttggagaaaa aagaaaaaag gaatggccaa aggtatggaa agctttcaca 180
atgcatgccg agtgtgaant gacccccag canatggggt ttatcatctt tacttagtca 240
cacaacatca angactgggt agttccaggg gaanggctcc atttcattac ctgggtcagt 300
tctcttcccc cgcagtctcc acaatgcagt anaacaaaca acacattcat ttacaatana 360
```

atgtttaaat aacacctgtc caataactgc ccttacttct ttgtgctgtc cgaaaagaa 420
 aaaacnnaaa gccattaaac cccnaccctt tggccanccc acccgtnnct attctcctgg 480
 ggn 483

<210> 10011

<211> 569

<212> DNA

<213> Homo sapiens

<400> 10011

atagagagcc gaaatatttt attttgatta aatacataat agttatggtc ttggtattgc 60
 aaataacatg tcttggaat gtttagatgt ngaggagaa ataaacaaag tcacaaggtc 120
 gaggcittaa cataccactc taagaaataa gtacacatag ccaaaaacaa catactatta 180
 cagtattata cagtattctg acacagctag gtttcagaaa tcattatact tgacaaaaag 240
 gataatttac attcttttta aaatcccatg taacaattac aaaaatctct ttagtaacaa 300
 agaaaatctc tagaaattct caaaagtagt cttttaatgc atggcatttt ctgaacacaa 360
 taaaacacta gttgatagaa aaaagacaga aaaaggaatn taacaagcct cctaatttga 420
 aataagcact tttctacatt actccgattn aaganaaaac cccaacntac caaattttta 480
 gaanaatatt tcttntttta ctttccaaa aacttntttt ccaattncca ccattatatt 540
 tggtaggatac ttaattnctt taccnccn 569

<210> 10012

<211> 565

<212> DNA

<213> Homo sapiens

<400> 10012

atgatagcac aaagtagttt ttaataaaat ctgcttttta cttatattta aataaattgc 60
 ccagttactg aatcagaagc atttcttaca aagcaaacia aataagcatc ccttctatgt 120

| | |
|---|-----|
| taataacatg ttaatagtat gttggcaagt tgatttanaa caacttgcca acaatacaaa | 180 |
| cagaaaaagg agtgggtcaa agaaatctag tttggcttta ttttcaatag atcatactgt | 240 |
| ctgttgaaaa aggaataaat aattatggag cctatctaataa atataactcn atagtttgaa | 300 |
| <hr/> | |
| attattgagt gcttcctata taatangctc caggctaagt atttcatttg cattctataa | 360 |
| ttatgtttat attaacatga aggaacaga anttaagtac taagttctta gcatgcagat | 420 |
| aacttatatc tatttatgac aaactttgtc cctacacatg tggctganta atttcataatc | 480 |
| tctgggtcnt aagaatcttt gaacataatg gacttaattc cntaaccttt aactggcncc | 540 |
| gntatatctg ttcaattcna aaatg | 565 |

<210> 10013

<211> 589

<212> DNA

<213> Homo sapiens

<400> 10013

| | |
|---|-----|
| gaaaaacata natttttttt ttcctccaga ntagtagcta attttgtttt ttttttgaca | 60 |
| gtctcactct gttgcccana caggantgca gtgggtgcaat ctgggccac tgcaacctcc | 120 |
| acctctggg ttcaggtgat tctcctccat cagcctccca agtatctggg attacaggtg | 180 |
| cccgccatca ctctggcta attttctat tttagtaaaa atgggttttt gtcattgttg | 240 |
| ccacgtggt ttcaaaccct tgacctcang tgattctctg gcctcagcct cccaaagtcc | 300 |
| aggggattac aggtgtgagc caccacacct ggcttctttt aactctgcaa aggggccnng | 360 |
| tctggcatac agtttgaaat ttgctgccac aatccattt tgcnaacccc aaattcctng | 420 |
| tggaaaaaag gggggtnttc catnggccca ctaaccattt gggcnaatta aactcctttg | 480 |
| ctccccaac tgtttgccan aaaaccttaa aaggaaggcc cncctattnt ggaaacaaat | 540 |
| tnnttttccc ctttttanta aaaaanataa ccctttttta aaaatcttn | 589 |

<210> 10014

<211> 541

<212> DNA

<213> Homo sapiens

<400> 10014

| | |
|--|-----|
| ctgtgtttga ttggttttat tttatactca gctttatfff atatacaaaa actgtaattc | 60 |
| aggtataagg ttatttcaca ctttaagggc attctgtctc tttctccaga cctgaaanag | 120 |
| atgtttcaag gatcattcac ctggctaate cacaatatat caaaatgctg acagacctac | 180 |
| aaaatcatta tgccaaacaa actcctccaa gtctgtacatt gcacagtctc caactgttaa | 240 |
| acaaattagc caatttatct ctgaaccatt gttttgtgct ttccttagct ttcatatata | 300 |
| cactctggca ctttgtcatt gctgggagaa tgctgattag tttgaaatgg aanaaaccaa | 360 |
| cgccattctt gcttganatg ggggcagttt tctctcaatg ttgcaaaaata tgcccaaate | 420 |
| atttaagana cagaaatctc tcttggtaat ggtggattat nnatganaat gaaaaaaaaac | 480 |
| ccnacttnt ggatgtttta ataateatt tganacctaa aaaaatggtg ccaanccaca | 540 |
| t | 541 |

<210> 10015

<211> 559

<212> DNA

<213> Homo sapiens

<400> 10015

| | |
|---|-----|
| gcattttttt tattgccacc agtgtagtcc caacctccat cctctctcac ctggatcaca | 60 |
| gtaagcctct gccctgcca atccattctc cacaaagcag agtgatctct aggaaagcaa | 120 |
| ctcaggttgt gtccactct taggtaaaac cctccaacag tttctcatgc ctcagaatga | 180 |
| aatetaatct cttatctctg gactctaaca acccctctga tttagcccct acctgcccta | 240 |
| tctcttgcac tctttccttg ctcactcaat ttcagccact ggtgtccttc catgttttca | 300 |
| ttcattcatc ctcaggcctt tgagcatgtt attccttctg ctttacacag cctctctctg | 360 |
| ntctttgcct ggttatctcc tacttgtctg gttctctgtg tgtcactttt cccacacagg | 420 |
| tcttctctga cttcctaata ctaaattagg atcataagtc tcagtttcct catttctgaa | 480 |
| ataaggtatt ctgcggatta aatgagaacn ttcatgtnaa ggttggtggc caagtactng | 540 |

cccacagtgn ggaccttan

559

<210> 10016

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10016

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agagtaaaaa aggagtttat atatttataa atgccaaata aataccagag gccacccaac   60
gccccctccc agacaggggt gtctcccca gccctaggct tctaggggtg gagacatctt  120
ggccccaagc tatagcccaa gagcagctgt cagtctgtgc taccagggaa ctgagtgagg  180
atgatctgtc cagccaagtt tcactcccc tgagtgaggg gcccctatag ccacaggcct  240
gggtccctgt ataggaccct aagggtgaaa gactcagggg gagaaggtgg ccatctcgag  300
tgagaccgcg tgccacagct ccttggtctg tttgctgcgc ttgaggttct gtaggatgtc  360
gttgaactgc atcatgccc tgggcgtcag gcagaaggcg ctgcgggcac tccggatcgc  420
attcacaag tcgtcgtagt ccgcangagt cangtgaatc aagctgtggt ggatgtactg  480
catgtatgcc tgctggcaac gcttgaccan ttggtggaag gnccgggcac ncaggtgggt  540
gtgggcctna accggactaa c                                           561
    
```

<210> 10017

<211> 524

<212> DNA

<213> Homo sapiens

<400> 10017

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ggcaggtttc cttttattgg ttctagacag tttgtggaag gaagagatga ggcatntan   60
aggccggcag gctcggccag tgcccaaac actgccacc tgaagtagtg ttggaagctg  120
ctccagggat gttgcagccc taagcacagt gacaggtggg ggcaggagca gcaggggtcc  180
ccgaggtgtt ganaggctgg tgagggcaca gagaaggac ctcctggggc tgaggcccct  240
    
```


ggtggcccta tgtgttgag cacgctggcg ctgtctgtc cggcctccag tcacgccaag 300
gcctcctgcc ctgaccacca gcaatgctgg cctcaatgtg gctgaagctg gacgtgtgac 360
tttgacccccg tgagggggtc ctgggaaggg ctcanttgct gccgttgctt gtcgtcactg 420

tccaggtatg caccagttg gctcangan ggacccccca ngcgttangg gtttanggtc 480
ggncctccttc ctggctctggg gggcttctgg ggtngggggc ccct 524

<210> 10018

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10018

aatgctttaa aaactgtatt tgtacaacag gataaaaaca gtttttcttt cggatgccag 60
ttgcaagttt ccatgtaacg tatcttaatc tacattccca aagtaattgt gtctcaggta 120
acctttgccc tgcccaaaag atgaacaaaa ataaccagaa aggtaaaaat ctgtcttttg 180
agttggggga atcactggcc acttgcaaac tgccacttca ctgccaactt ttatccaaga 240
aaaccggttt ctaaaaacct gcaaaaggga catttaagag gaagctgttc cctgaacgaa 300
gactgagcag gacaagccaa aagcgggtgcc aggggacaat gccagatggg gaaagtagga 360
gccgggttgt gagacggaaa cacacacgcc aagaacagcc agggagcaaa gcgaggagtt 420
ctggcttctc gtaactcatg aaggatgaat gctcatcggg taaatttaga cgataaagct 480
gatgatgacg gccccggggg ccgnttttgg aaccnctta nttccagtnc ncnagaaaag 540
aaaatnttgg agg 553

<210> 10019

<211> 559

<212> DNA

<213> Homo sapiens

<400> 10019

| | |
|--|-----|
| gagatggagt ctcaccctgt tgcccaggct ggagtgcagt ggtgcatct cagctcattg | 60 |
| caacctccgc ctctgggtt caagagattc tcctgactca gtctcccaa tagctgggat | 120 |
| tacaggcacc caccaccatg cccagccaac tttcatatt tttagtagag atggggtttc | 180 |
| <hr/> | |
| accgtgttgg ccaggctggt ctggaactcc tgacctcaac tgatctgccc gcctcagcct | 240 |
| 'cccaaagtgc tgggattaca ggcatgagcc accgcacca gccttcaagt attttttctc | 300 |
| ccctccccct acaatcgccc cctcttcagg gactctactt acatgtatat tgggctgttg | 360 |
| gaagctatct tgcagctcac tgactgatgt tcttttaaaa agaattcttt ttttttctct | 420 |
| gngtttctact caggatagtt tctattgaga cttctctgag ttcactatta ctttataaca | 480 |
| tttaatctac ccttgatctc atcctgggna tccgcatntt aaaacactgg gggtttcatc | 540 |
| actgggaagt ttgaatttg | 559 |

<210> 10020

<211> 562

<212> DNA

<213> Homo sapiens

<400> 10020

| | |
|---|-----|
| aaacaagtga acagttttat taagaattaa atgagggtat ggaatgtgat acagtacaag | 60 |
| taagacactg aagatgggta taatagtact acttgacaaa aaagttaa atttcacttcaa | 120 |
| aaaaaaaaat cacaagacaa aagaaaaagc aattccatca ttataaagta agctattica | 180 |
| tgcaacgtac taatactccc cctcccccca aaacccaac ttccaacaa acaaaaagct | 240 |
| atctgaaaat gctgccatgc taacatatga accacggat attcattcat ggaaaaacac | 300 |
| actcattaag caatggatta gataaaataa cacagtttgc agtattgtaa actcatagac | 360 |
| cacaatgatt tcacatgaaa agcaattcca gattcactca tagggtgagt aatatgggct | 420 |
| acatagttga gagataatgt aaatataaac cccattaatt ctctcattat cttctaatta | 480 |
| tnaaacctgg aagcttagat aatctggaaa attcatataa aattngnata cttcacttgg | 540 |
| gntccaagaa atgactttcg gt | 562 |

<210> 10021

<211> 514

<212> DNA

<213> Homo sapiens

<400> 10021

ganacggaat tgnctgttg ttactccggc tggagtgcag nggcgtgac ttggctcacc 60
acaacctccg cctcccgggt tcaagcgatt ctctgcctc agcctcccga gtagctggga 120
ttacaggcgt ccaccaccac gcctggctaa ttttgtattt ttaatanana tggggtttca 180
ccatgtttgt caggatggtc tcgatctcct gacctcgtga tctacctgcc tcagcctccc 240
aaagngctgg gatgacaggc gtgagccacc acacccggac tgctggattt tttcttatat 300
cagcttaaac aaactaagat gattattccc acagaggaat cgtttttatc ctttaaggcgg 360
ggttaggagg aattcacaag agagacctgc tgatggacag acagtacatt gcgtgtcgac 420
aggagtccac accaatgcca cctgcaaate aanngcctga cattcccatg ggggcncaan 480
aaaaaggntn aatagatccg tttcctttnt atgc 514

<210> 10022

<211> 556

<212> DNA

<213> Homo sapiens

<400> 10022

agtagagacg gggtttcacc atgttagcca ggatggcttc gatctcctga cctcatgac 60
tgcctacctc cgctcccaa agtgctggga ttacaggcgt gagccaccgt gccagccag 120
caaaacaatt ttctacacaa atgtccttat gaaatgcat gaaccccaag tacacttggg 180
cagaatgaac ctattacttc attttcccca cagccaatca cccttcccca tgccttagac 240
catcccactt ccctcagcca taaatatccc taaggcttat cttgaggagg tggatttaat 300
ataagttgcc aggaccagca gacctgaaa ctccccaccc ctgcccttcc tatattctgc 360
ttaaaatttg gtggatgaac ctattctcc cttaattgc agaacagaaa tgtgtgacac 420
tccctgagtg tcaatgaatg cctgatccct gcctaactca ggaaattctt ggcatcttn 480

caaggtgctc ccctaaaaat ggngctccgg ggaatgatct tacagaactt aaggctttac 540
catttatggg atcgna 556

<210> 10023

<211> 555

<212> DNA

<213> Homo sapiens

<400> 10023

gtagcctcgc tctgtcacca ggctggagtg ctgtggcacg atctcagctc actgcaacct 60
ccgcctcctg ggttcaagca attctcctgc ctcagcctcc caagtagctg ggactacagg 120
cacgtaccac catgcccagg taatttttgt attttttagta cagacgggtt tcaccacgtt 180
ggccaggatg gtcttgatct cttgaccttg tgatctgccg gtctcggcct cccaaagtgc 240
tgggattaca ggcgtgagcc accgcacctg gcctgggcct gccctattaa acagacttat 300
taccataatc aggaccatgt ggttttagca cagagaacaa ctaacggata cctatgcaca 360
cagggaaact atgatgacag acagatactg cagagtaaat tattatttaa taaactttgc 420
tgggataatg ggtgtccata aggaaagaac tgaaaacgga cccactgggtt actcaatacc 480
caaactcaat tagaaaangg gattaaaaag nttnaaaga acacnttttt tttttttttt 540
ttccttgana naggg 555

<210> 10024

<211> 558

<212> DNA

<213> Homo sapiens

<400> 10024

ctttctttct tctttttttt ttttttttta nacggagtct cattctgttg ctccggctgg 60
agtgcagtgg tgtgatcttg gctcactgca acctccgccc cccgggttca agcgattctc 120
ctacttcagc ctccccagct gagattacaa gtgcacacca ccacacctg ctaatttttg 180

| | | | | | | |
|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|-----|
| tat t t t t t a g t | a g a g a t g g a g | t t t t g c c a t g | t t g g c c a g g c | t g g t c t g g a a | c t c c t a a c c t | 240 |
| c a a g t g a t c t | g c c c g c c t c c | g c c t c c c a a a | g t g c t g g g a t | t a c a g g c a t g | a g c c a c t g t g | 300 |
| c c t g g c c c c c | a a a t a t a t c t | t t c t t a t g c t | c t a t t g a t g t | c a g a g g t t c t | a a g a t a t c a c | 360 |

| | | | | | | |
|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|-----|
| c a a a t c a c c t | a t t t g a a t a t | t t a a g c t c t a | a c t t g a t c a t | c c t c t g t c c c | t t t a g t t a a g | 420 |
| a g t t g g g g c t | g a a g g c a g c c | t g n c t t t t c t | t t c c c a c t g g | g g g a t a t a g g | n c a t t t t c a a | 480 |
| c c t t t t c c t g | n t t c a a t a c t | t g g c t a c t g g | g g n g a c a t t c | t t t t a a a a t t | t c a t g g c a t c | 540 |
| t n t t t n a a a a | a g n c c c t a | | | | | 558 |

<210> 10025

<211> 559

<212> DNA

<213> Homo sapiens

<400> 10025

| | | | | | | |
|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|-----|
| a a t a c a g a c g | a g g t c t c c c t | c t g t t g c c c a | g g c t g g t c t c | c a a c t c c t g c | c t c c a t c c t c | 60 |
| t g g c c t c a g c | c t c c c a a a g a | g t t g g g a t t a | c a c a a a a c a a | a a c a a a g c a a | a a c a a a a c c a | 120 |
| g g c c a c a c a g | t g t t g g g t t a | c a g g c t t g a g | c c a c t g c g c c | t g g c c a t g a a | t c c t t t a t c a | 180 |
| c a c c c c a g g g | g c c t c a g g t a | c c a a t c a c a g | g g c c c a t g t g | c t c c a t c t t g | g g a a a g t a a c | 240 |
| a t t c a t c c a t | a g c c a g t a a a | a a g c a g g g g t | t t g g t g c g g t | g c c t c a g g c c | c a t c a c a g g g | 300 |
| g a t g c t g a g g | g g g g c c c a g c | g c t c t g c c c a | c a c t g c c t g c | c a t t g a a c c c | c c a c t c t c a g | 360 |
| a a g c t a c g a t | g t g a g a g a g g | t g t g t t t a g a | a t t g a g g a a a | g a a g c c a c c c | t t g t c a a a g a | 420 |
| t c c c t c c a c a | g g c c c a a g a g | a a a g t g a a a a | g a c c a t t t t t | a c g c c c g c t t | t g c t g a c t t t | 480 |
| t t t g a t c t t t | t a t a a a a c a a | g c c a c a c c t t | t c c c t a a g n a | g g g a a g t n c t | a a g g g a a t t t | 540 |
| c a a a c a a g n t | t g g t n g g g c | | | | | 559 |

<210> 10026

<211> 550

<212> DNA

<400> 10026

| | |
|---|-----|
| ccgaagagtg gtaggaggg caggacaatt tctagaggca ggggaatctg aaagtttcat | 60 |
| gccaggggaa tggagctcag tttatcttcg aagcccttct ccccatccca ggggggcccc | 120 |
| ttaccacgc ctgcattatt gaacatgccg ggaagcacca gcatgatgtg gttgggccag | 180 |
| tacttgcggt acagaggcat ctcatactct ttgaccacca ggaggtgaag gtggctgatg | 240 |
| ccctccatgg cgtggaaaag gtttaggagt ccgtgctcat gtcgaccact ggaaggagtg | 300 |
| aaaatagggc tcttgactgc attcaaattc ttgtctgaaa ccaggggcag ccgcatgctc | 360 |
| tccaggtgct tgccctgctt gctgaagaca aaatgactct ctttgattt gggaatgatg | 420 |
| aaatatagct gaacctcttc tcccagcata gaagaagaga atgtgaangc atgaanggtg | 480 |
| gagtcagaca tntggaagca naagtgaaat ccatgtactg gcggacttgt tacaannggt | 540 |
| gaaanggggt | 550 |

<210> 10027

<211> 545

<212> DNA

<213> Homo sapiens

<400> 10027

| | |
|--|-----|
| gagacggatt ctcgctctgt tgccaggctg gtagtcagtg gcatgatctt ggcggctcac | 60 |
| tgcaacctct gcctcctggg ctcaagtgat tctcctgcct cagcctcctg agtagctggg | 120 |
| actacaggtg cagccacca caccagcta atttttgtat ttgtagtaaa gacgggggtt | 180 |
| caccgtgttg gccagcatgg ttttgatctc ttgacctgt gatctaccg ccttgacctc | 240 |
| ccaaagtgc ggaattacag gcgtgagcca ccgcgcctgg ccganagtgt gattttaaaa | 300 |
| tacaaaccaa ccagtctggg gtctgtactg ccaaccacct gccttattgg gctcttgccac | 360 |
| tccaagccac tatctttctg ccctaatac cccaaggcca ggtgtcaggc cgntaggcag | 420 |
| cctntatgcc ccagagccca caaatgctt catatctgnc catctgaanc tgnntggctg | 480 |
| gccttgccct tttttcccat ccaancctta ttaaaagctt tngnccaaag tccctcatga | 540 |
| atttt | 545 |

<210> 10028

<211> 570

<212> DNA

<213> Homo sapiens

<400> 10028

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cttttttttt tttttttttt ttacaggaaa gccatttact cctggatgaat tcctcagggt   60
cccagggtca acactttccg tgatgtcaga gtactcagtc agggatgatg gggacagggt   120
gtcagaacag tcttgatggg ctgcccagca acagcttttt cttattttcc ataatttggt   180
cttagtcgtt ctccagttgt cttcatgtaa ataaagtggc ccatggcaat catgattctg   240
taattgttat agtgcctttg taagttgaca gtttccaaat ccccttactc atacgacccc   300
tgtgaagggg ggtgtgaagg ggttgggtggg cttgtgcata tgagggaatg tgaacgattt   360
cattatgacc gaattatgct ttactcaata agcactcaaa cactaccatc tcacttgtag   420
tagaagtgtc agggatgcaa ccaagaaact ggttgaataa tgggaangtt aaatgcctga   480
gtattttaat ngaaaaaaat nttaaaaacc aacccaaact cgttgggaaa gangcttttg   540
ctanggcctc ctttttaciaa ngggttggcc                                     570

```

<210> 10029

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10029

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ctttgggaga cagagtttcg ttcttgttgc ccaggttgga gtgcagtggc gcggtctcgg   60
ctcactgcaa cctccacctc ctgggttcaa gcaattctcc tgcctcagtc tccctagtag   120
ctgggattac aggtgcccac caccacaccc aggtgatttt tgtattttta gtagagatgg   180
ggtttcgcca tgttgccag gctggtcttg aactcctgac ctcaggatgat ccaccacat   240
tggcctccca aagtgtggg attacaggcg tgagccactg cacctggcca agtgtacatt   300

```

| | |
|---|-----|
| cttaagaaca acgtacatag attggggaaa agtatctcgt tttcattctg agagctaata | 360 |
| caactgagag tgtacgaaga ggtcaaacac agggactgct ggggtggaaca cactgncact | 420 |
| ccacctnccc ctncacctct gtgccacaca cctgatgtgg cccacccaa cacagncacg | 480 |
| anccttctac' cccccanccan ctgccaaggg ccctgagttt aanccaaaaa aggagcangg | 540 |
| gcatncttt | 549 |

<210> 10030

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10030

| | |
|---|-----|
| gagacatagt ctcactgtgt cgcccaggct gcagtggcat gatctcagct cactgcaacc | 60 |
| tccgcctcct ggggttgaagt gattctcatg cctcagcctc ccaagtagct gcgatcacag | 120 |
| gcacacgcca ccacgcccag ctaatTTTTg tatttttagt agagacgggg cttcaccatg | 180 |
| ttggtcagga tggctctgac ctcttgactt tgtgatccgc ccacctcggc atcccaaagt | 240 |
| gttgggatta caggcgtgag ccaccacgcc cggcctcaac tcttaataata tgtcagcccc | 300 |
| tcctttgcaa ccagctctgc gtgctgctgc tgacaagcag catgggtgtgg aggcattggga | 360 |
| tgctcctagag tccagccaac ctgagctctg tgatcttggg caagttattt cccttctttg | 420 |
| agtgtaagt tttcttcate tattaaatgg ggtcatcact ttcacttgnc ctgaaaagta | 480 |
| tccagataat acacagttag cacagtgcct ggcccacagt aaacctnga atggtgnagc | 540 |
| ttcatgaaaa aaa | 553 |

<210> 10031

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10031

| | |
|---|-----|
| attgcagttc actttattgc acgtcaagat attgcctttt tttttttaa caaattgaag | 60 |
| gttcggggta actccagagt caagcaagtc tattggcaac attttccac gagcatgtgc | 120 |
| ccactttgta tctgtgtgtc acactttcgc aattcttgca atatttcaaa cttcttcctt | 180 |
| <hr/> | |
| attatatctg ttgtgaagct ggttctccca gacgttcct gcaggctgtt tatgcagcgc | 240 |
| ccatccgaga tgaaccaca ggacactcag gatcccagac tgcaggagtc gtctgggac | 300 |
| acaggcgggg cagagcaatt tgtcaatgtc tatgaggagt cctccttggc agcccagtct | 360 |
| ttatcctcac tcacgtggaa atgagattcg acctctccta atcacctggt gcccaggag | 420 |
| caggtaggcg cctgtccaa gcctgagttt cctgggaaat ctacatttca gcacagatgg | 480 |
| gttcccagca gcttantgct ctggctgncc ttangnact gaatcatttn acccctaggt | 540 |
| ttttgntgg tggtttga a | 561 |

<210> 10032

<211> 563

<212> DNA

<213> Homo sapiens

<400> 10032

| | |
|--|-----|
| cattgtacaa tgctaattgtt actttatctt gaaaacaatc ttgagaagta ggaattattg | 60 |
| tcctctttca caagacagga aaaatgaggc caagggttag tgacttgctg agggtcacac | 120 |
| agtacagag tggatctctg gtccctgtcc ctgacttctt ccctagggt cctcctctg | 180 |
| ggcatctcac tcagaggaag cagggccatc agtggtactg gtgccagctc ttggggagct | 240 |
| atttccccc aggtgggtta agttctctcc tagtatacaa caggatggtg gctacaccgt | 300 |
| catgataggg agaacagcta tcttaggagg ctgcttgcta gacagagatg ggtgtgtgtg | 360 |
| cgtgtctgtc tgtctgtctg tctgtctgtc ctgggtccag agccgtcaat tcttcagcct | 420 |
| cagtcttccc tctattgcc tctcctggac atagggaaga agtgccctctc cctgctgccc | 480 |
| ccaggattac tccctggctt tttcactttt cccacattca tctgaantg gccctttggc | 540 |
| tgtcaccaag gnccggctgg gcn | 563 |

<210> 10033

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10033

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 ctgtaacagc caattaccca aaacactaaa tagggaatgg ctcaaaaaag gctgtttctg 180
 aaaaagcagc agcattttga tgagcaaaaa tagtaagaga ggatttttta aacttagaaa 240
 aacgaggaaa gttgaaccca gctaagaata tttctgagac acccccacc ccttgtgatt 300
 tttctccgc taggattttc ccttgactcg cctctttaga gactgctaaa cacacacaca 360
 catacacaca ctcatTTTTT aatcccacca actctcctcg cccaaggcc agaggcttgg 420
 cggtgacagc ttcgaacaat gacatcacc taggtttgcc tccttggcag ggtcaccaat 480
 actgnttgca gtcaatttcc tgtaaaggct ctttaangna ngaaactaat cctgngccct 540
 gaggccttcc ctgngtgaa c 561

<210> 10034

<211> 556

<212> DNA

<213> Homo sapiens

<400> 10034

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 tagtagcctg ggcaactgtg ctggacgttg tattctcctt ccttcttccg ccggcggttg 180
 gtcaccagga caccgcanat caggcatgtg atgagtccca ggagtcctgc caagccgatg 240
 aagatgacag ccanaaggg aaggtcanaa ttcccagtta agggctcatt tctgttggga 300
 gaatacccat ccacaaggac actgctcctg tccagggtga agttctgcag ctgggtacca 360
 ttccgggtca tccgcagaaa ttctcatag atggcaactc tgnctactct ccgagccagt 420

ggcgaaaagt tcacagggag tccaccccgg tgtggtgcct gttggggaca gacctgaatg 480
 ttgaacttga cagtcngaaa aatacttttg agctgctgtt tnggaaaaaa ttgtttaacc 540
 catnctcaan tttcnt 556

<210> 10035

<211> 544

<212> DNA

<213> Homo sapiens

<400> 10035

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 gaagaggcag aagaaacaga ggCgggaaaa ggtgcagggt gcagtctagg agactgctct 120
 tatcatgctt caaggggccc actccactgc agtgggttct caggacaatt ttttttttc 180
 cttttttcta tagctaaatc tgcaggatag atcttcagta tcttaaaatg gttacttta 240
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 gctacaaaat gaagaattaa agtaggctat ctctaaggnc tcttgactc tctaattcaa 360
 tgagaaaact ctcattaatt tcatcacgta tgatgagtag aaaataatca atgaacataa 420
 atgcatactt atgcaagggc atcttatttt aaatttgata tggataaata agactactta 480
 tggatttact ggnatcaagg ngctggaagg attgagaaan acaagctncc ctgnanancc 540
 cccg 544

<210> 10036

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10036

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 ctgcaacctc cgcctcccgg gtccaagcaa ttctcctgcc tcgaactccc aaatagttgc 120

特平 1 1 - 2 4 8 0 3 6

gattacaggt gagcgccacc atgccagct gatttttttg tatctttagt agagacgggg 180
 tttcaccacg ttggccaggc tggctc aaa ctcctgacct tgtgatccgc atgccccggc 240
 ctcccaaagt gctgagatta caggcatgag ccaccgtgct cggccaaaaa tgaagcattt 300

cttattagta gaagaaagaa gaccagctaa acaggaagca taatgaactc ctagctaagc 360
 tcagaggaat ttgtctgcaa aacccttaca gaacaccaca caatcaaatt atttgcacca 420
 tagcaacttt acccccaaag tgcanatctg ttggcttat tggcttgagg gctacctgcc 480
 aggatctang nccatggtgg ctggcctct gagctctggc ttncatttc cacnggtttc 540
 tgggtgggggn ccctaaattg g 561

<210> 10037

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10037

gaaaagtata taacagattt cttattatt atttacaatc aagttctgtt ggccaacata 60
 atgaaataaa taaaagatgt gccctggcct gtgaatttca actctccttg acttaagttc 120
 tctgaagggc aaattggaaa gcggtgatca ggcagggaag agagggcagg tggaggccag 180
 gaccatcggg gggaaggccg cctgactcct ctctcaccag ctctaact cacatcccca 240

<213> Homo sapiens

<400> 10038

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anacggagtc ttgctctgtc tccaggctgg agtgcagngg ngngatcttg gctcattgca 60
acctntgcct cccagggtca agngattctc ttgcctaana ctcccagagta gctgggatta 120
cagttgcatg ccaccacacc tggctaattt tttgtatttt tagtananat ggagtttcac 180
catgttggcc aggatggnc tcaatctcctg acctcatgat ccaccacct cagcctccca 240
aagngctggg attacagng tgagccacca caccggctg tcagtgnitt tataccatt 300
ttggggaggg aaaaactgag catcccgaga tgaagtaact tactcagggc cgtanaaatg 360
tgacaaaaat caatcttatt gactcattct aaaagcaact cattgcctct taaatgaaga 420
agaaagacat ccttcagctg gctcttgggt tcanacccc tgggctaagt caccttggct 480
acatggntca tcanaatgcc cactcttggg acctttangg ggccacaagt ntttattgga 540
g 541

```

<210> 10039

<211> 566

<212> DNA

<213> Homo sapiens

<400> 10039

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gggttgtgca aagaaagctt tttatttgag aacacctaga tacttttgga aatgttcttg 60
ttggatcaca aacaacctaa ctgacagtct atcgccaaca tccacaaaca cagcaaacag 120
tccagtcttg cagaccacac agggtacatc tagagggttc tacttgcatc acccacactt 180
ccactcctgt gaaacaactg tcttgggcat gagaagggcc aggataggcc aggtgaatgg 240
caggctgccc aacaacccca atcccaaacc aacctcccag gccatgggcc caagtccttg 300
caggaagatg ctaataggta caacaggtag aacatgtaga cacaaacatc tagtttattt 360
tttctgactg taaccaaagt cagcaaaaga aacaacaaaa cttcagtgcc ctagaaatcc 420
tcctggattc aatgacaaca catcaatggc cgggcacang gttggattcc ttttatgaaa 480
tcaccttata atctctcatc atnccaggac agtggctttt gggactgcat gaatcnttna 540

```

tagctcccc ccaaattntt atcctt

566

<210> 10040

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10040

| | |
|--|-----|
| gggcagcttt catctgtgtt tatttttttt catataaaag ttacatgttt gaaatgtctg | 60 |
| caggaagatg ccaccatcag acaggtttagc tggggcatat atattacaat gtaaccctgt | 120 |
| ggaggtcgtg gggccggagc gggaagatgc tcccagtgag ggcctgggga ttigcctggg | 180 |
| cacactgggg ccaggcacag ggtctgttct gaattcaggg aaggtgaaga gacccacct | 240 |
| ctatccagct caagcccaag aacaaggcag acagagctgt ggacagcacc cgaccacaga | 300 |
| cacggttctg cctgctgctg gagtgaagg cctggtttct gaggtgcag catggcactg | 360 |
| gcattgcctg tgctacagat ggggactcct gcgagtcctc caatacagg gagaatttca | 420 |
| gttcacacaa cccaagggcc ctgtgtgcaa agcgggcctt aaacgcgcac aggaacattn | 480 |
| aacaaaactt ggcaagggga agggganaaa anatcaaggt ttgnaatgaa gggncittta | 540 |
| aaagaaggnc cnacttaaaa c | 561 |

<210> 10041

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10041

| | |
|--|-----|
| gatacagagt ctcactgtgc caccaggct ggagtgcagt ggcgtgatct tggctcactg | 60 |
| caagctccgc ctctgggtt cagccattc tctgcctca gtctcctgag tagctgggac | 120 |
| tacaggcgcc cgccaccaag cctggctaatt tctttttgta ttttagtag agacgggggtt | 180 |
| tcaccgtgct agccaggatg gtctcgatct cctgacctcg tgatccgcc gccttggcct | 240 |

特平 1 1 - 2 4 8 0 3 6

cccaaagtac tgggattaca ggtgtgagcc actgtgcccg gcccaatttg tttttaagc 300
 cctgatgttt tctcagttgg gtttgaactc agtcctctta caaagtcatt ctaaactatt 360
 cctagactga tagaccattc ttggattgga ccattcctgg attgggcaat ggcaacactc 420

ttccagaaac cattagaatg actctaaaga gagcagaagc actttttctc tctgcctctt 480
 cctaaaggct gaatatatcc tattggccat gggctggtca attccttttg angtgaggga 540
 ttgactcctt ctcaactccc c 561

<210> 10042

<211> 505

<212> DNA

<213> Homo sapiens

<400> 10042

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 ctggagttca ttcctatcaa tgtcattttg attgtgcagt aagatgaaaa ttgttcatta 180
 caatagttac agtgacagag aaatgcacac tatgtatcaa atagcaagga aatgaagcaa 240
 attataacac agtgtggcaa cgcacgagca agtaaccatt agagtaacat tactttgtcc 300
 agtaaagtct tcagttccac cacttgtaca cttaccaatg atttaaaggg ttattatac 360

aatctgcaaa ccaagaacct ggaaaggaat acaaattcct tcctggaaaa catgtatccc 60
 ttcttgccct ccctccacgc cctgataaat aacatgagca tgcagcgatt gccaacagca 120
 gctccaggca tgaggcacia catctgttac tgagacactg gagagacagt ggaaagcaag 180
 ttggctgcct gccaacccctc agactccaga tttttgctga caaggctgtc aataaatggg 240
 cagatggcat cagctctgct ggcagaagag ttcagttaac ccagtgcggg acattatttc 300
 aaattcatgg tgcaccaggc tgagcccttt gttgggcat taaagccatt ccttgatgga 360
 gaaggagag caggactagg aaatcaggag gactagctt catttaatta gattaactaa 420
 gcctttccag tggcagccag aatcaganta ncccttngga acnttgaaag ctatggattt 480
 ttttttgggt tttggaaggg ccgggaaaaa ncctanttcc acattgnatt ttatgccat 539

<210> 10044

<211> 539

<212> DNA

<213> Homo sapiens

<400> 10044

gagatggagt cttgctcttg ttgccaggc tagattgcaa tggcgcgac ttggctcact 60
 gaaatctctg cctcctgggt tcaagegatt ttctgcctc agcctcccga gtagcaggga 120
 ttaaaggcac atgccacat gcctggctaa ttttttatat ttttagtaga gaaagggtgtt 180
 caccatgctg gccaggctgg tctcgaactc ccaaccttag gtgatctgcc tgtctcagcc 240
 tcccaaagtg ctgtgattac aggcgctct tttccttaat aatccctaat tcttggctag 300
 gttgttgggt aaaagttatt tcctgataaa caaggcggtta cttatatat attatcaata 360
 aaattatatg tataaataca tggaaatgca cgcatagtat tgcattattc aataagaagt 420
 ttacagctg aatatccctc ttaagaattc cttgagggcc aagactctat ttcctttttt 480
 tccttttctt ttttttttga anccgggttc ccaggntgga atcacagggg gggaacntn 539

<210> 10045

<211> 543

<212> DNA

<213> Homo sapiens

<400> 10045

| | |
|---|-----|
| gagacggagt ctcactctgt caaccaggct ggaatgcagt ggcacgatct tagctcattg | 60 |
| caacccccgc ctccccggtt taagcaattc tccctgcctt agcctcccaa gtagctggga | 120 |
| taacaggcgc ccgccacat gcctggctaa tttttgtatt tttagtaaag acagggtttc | 180 |
| accatgttgg ccaggctggt ctcaaactcc tgacctagg tgatccgccc tccttggcct | 240 |
| cgcaaagtgc tgggattata ggcgtgagcc accatactg gcttgctgct accttttaa | 300 |
| tgtacatagt aatcaaactg atccacagaa tgtcccttcc agggacatga taactgaccc | 360 |
| cctgaaccag ccagaaagag gagagggact tgccttaagc aagtattgtg ggaagatcac | 420 |
| caaattacta gacatggatc actatcctc tggatccggc cccaaacaaa cnttaaaatt | 480 |
| accttaccaa acangntag aacaatntga aatggaatta aaaggngccc caaactggat | 540 |
| tgn | 543 |

<210> 10046

<211> 510

<212> DNA

<213> Homo sapiens

<400> 10046

| | |
|---|-----|
| gctcttggtg cccaggctgg agggcagcgg cgcgatctca gctcgtgcaa cctcagcatc | 60 |
| cctggctcaa gtgactctcc tgcctcagcc tcccagtag ctggaattac aggcgcgcac | 120 |
| cacaacaccc agccaatttt ctgtattttt agtagagacg gggtttcatg ttggtcaggg | 180 |
| tggtctcaaa ctctgacct caggngatcc acccacttg gcctcccaa gnggtgggaa | 240 |
| tacaggcatg agccactgng ctccaggccc aagccccat tctttctgta acctcaagat | 300 |
| ggcatataag cttctgcacc ccattgcana gtggggagta atcaatcact ctgnggttct | 360 |
| ccctgtgtgc gcattaataa atttgcacgc catttctgct attcatctgc cttttgncag | 420 |
| ttgacttttc agtgaacctt tanagggcaa aggggaaagt ttccttggg tttcataccn | 480 |
| tcaaaccttt ttcaccaggc ngaaanaagn | 510 |

<210> 10047

<211> 423

<212> DNA

<213> Homo sapiens

<400> 10047

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gcttagaaaa ttcagcttta atggccccag cccttctgtc tgagtctagt agtccagggc   60
acagatgagg gccacaccac gctttatcca gtgtcgtctg ggctgatggg tggggatctc  120
cacagcaatg acatagttgg tagagtgtcc tgtggttgat agtgttccag cacgagtcag  180
tgtctttagt atggggcaca ggtaaaagtc ctggtcctgg gccttgcggt tgggtgttgg  240
caagagccag ataacggcca tctctgtgta cagctccttg ggctgagact cagccagctg  300
gaaggcctct ggatcccagc gggcaccttc caggaataat ccatggatat agcaccctac  360
ttggggctct tnggttaact ctgatggtgc ctnaaacatn accttgnaat caaanggana  420
tgn

```

<210> 10048

<211> 540

<212> DNA

<213> Homo sapiens

<400> 10048

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gagacggagt cttgctctgt caccgggct ggagtgcagt ggcgcgatca tggctcactg   60
caagctccgc ctctgggtt cacaccattc tccagcctca gcctcccaag ctgctgggac  120
tacaggcgcc caccaccacg ccaagcgaat tttttgtatt ttttagtag agacagggtt  180
tactgtgtt agccaggatg gtctcaatct cccaaccttg ngatccaccc acctcggcct  240
cccaaagtgc tgggattaca ggcgtgagcc actgtgcctg gactaaaaca atgctttcta  300
aagcgcatte tgcagcctga tgtgcctgtg aggtgagagg tgtgggaggg acagaagctt  360
tgttcaaaga ggtttgggag aggctggata cttagctccc ttcttgnaag tttgccacac  420

```

acattggcat attaaagggt ctgagaaagc attcaggga ctggtctggt taaggggccc 480
ccaataactt ggcccatna cggntaattc tgggaantta gttaataacc tagggttcgg 540

<210> 10049

<211> 497

<212> DNA

<213> Homo sapiens

<400> 10049

aaagacagag ttttgcctcg ttgcccaagc tggggtgcag tggcacgac tcagctcact 60
acaacctctg cctcctgggt tcaagcgatt ctccctgcctc agcgtctcga gtagctgaga 120
ttacaggtgt gcaccaccac gccagcaaa tttttgtatt tttagtagag acaggttttc 180
accacattgg ccaggctggt cctgaactcc tgacctcaag tgatccacct gtcttggcct 240
cccaaagtgc tgggattaca tgcttgagcc actgcacctg gcccataata gagtttttat 300
tgnccattatt cccatattac agatgaaggg actaaggctc aaagggtaaa taagtctgtt 360
cttaaatagt gacttcctga gacacaggag atgtttaaga acagtactgg taggtgggaa 420
gtggcatttt ggagcaggag tgagaagcct tgaaaatgta tnaaganttg aaaaagggnn 480
gggaaacann ccnatta 497

<210> 10050

<211> 527

<212> DNA

<213> Homo sapiens

<400> 10050

aattggatga ttttggacaa gtctgtgcat ttattcatat cttattccat gtcaggggac 60
tcagtacaaa ggtgaaaaag acaaagttgc tgttctcaag gagtatactt tagacacata 120
agctagcaat aaacaaacag gatgatttta gctcatgaca gggctacaca gacagtaaca 180
gtgatgatag agagtgatgg ggaagaggtg cttaaaatgg ggttgtcagg aaaggcctct 240

gctaaccacc agatctcatg ggctcatctt gagatttaac ccagcaaacc tcttctgagc 300
 cagttggcac cactgatctc cctccccctc tttaaactgt tgccttcctt gatttctgtg 360
 acaagatact ggtgtcacta tctccttgnc tcctcctact tccagctccc tctttcagcc 420
 ttctatgcag gcacatcttc ttttgccacc cattaaaatc cctgggtngcc angacaacca 480
 ttccttctgg cggnttgaaa gaaagctcaa gtgcncacaa ggccnnn 527

<210> 10051

<211> 564

<212> DNA

<213> Homo sapiens

<400> 10051

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 tgtagcctcg aactcctggg ctgagccat cctccaacct cagcctcaca gatccctaca 120
 actacaggcc catgccattg tgccctgttg cattcttttt acttttttgt agatactggg 180
 tctcactgtg ttgcttaggc tgggtctcaa ctcgggggct caagcaatcc tcccacctcg 240
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 ttcaactagg tctcaacttt tggacttctg tgttcatctc tgccttggtc aatttttagca 360
 agtatcgtgc taaagttggg tttagctaga atcctcatcc tncacatctg atcactctca 420
 aaatctaate gggcttctta tcctntggca tccttcatga atggctaatt accctgggct 480
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 aggaancctc ttanncattg ggc 564

<210> 10052

<211> 555

<212> DNA

<213> Homo sapiens

<400> 10052

acaatgctaa tgttatttta tcttgaaaac aatcttgaga agtaggaatt attgtcctct 60
 ttcacaagac aggaaaaatg aggccaaggg ttagtgactt gctgagggtc acacagtgac 120
 agagtggat cctggtcctt gtccttgact tcttccttag ggctcctcct cctgggcac 180

tcactcagag gaagcagggc catcagtgg actggtgcca gctcttgggg agctattttc 240
 ccccagggtg gtttaagttct ctccatagat acaacaggat ggtggctaca ccgtcatgat 300
 agggagaaca gctatcttag gaggtgctt gctagacaga gatgggtgtg tgtgccgtgt 360
 ctgtctgtct gtctgtctgt ctgtctgtct gtctgtcctg ggtccagagc ccgtcaattc 420
 ttcaacctcg ncttcctcta ttggcctttt ctggacatag ggaanaagtg cttcttcctg 480
 gtgncccca gaatactcct ggctntttca nttttcccaa atccatcctg aaatggncct 540
 ttggcttgcc ccaag 555

<210> 10053

<211> 529

<212> DNA

<213> Homo sapiens

<400> 10053

aaagggcaca catacacttt tacggtttac accaaaccag aatcaaaacc caaatcagag 60
 tatccagaaa tccaagccag gtcaaaacca aaacgaaagt atcaagcaat ccaaatacag 120
 tcaaaaacaa aaaccaaagt gccggtacag gcatgccgtg ggtgatcagg ccacccttcc 180
 actcaaatgg agtgggcaag ttccaaagac tagtcttacc aagtttcaga tgtccggact 240
 ccaagtgcct gtctcttccc agtggtcagc cgctgcattg atcctctgtg gtggcctgcc 300
 acacgccact ctggcgaggt gttccactgg ggcaattgcc taccgggag tgctctcagg 360
 ttctgcgtcc ctcaagctgg ccagagtccc ctgtagggat gctccacagg gcaggcctat 420
 gctgcctaag gggcttgctt cgactatctg gtaatcacct ggctttccaa tcagggnacc 480
 ccagaaatgt ancanggaca agnccgnang ggttgattt cancctgga 529

<210> 10054

<211> 496

<212> DNA

<213> Homo sapiens

<400> 10054

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gagacagagt ctcagtcacc caggctggag tgcagtgccc cagtcttgac tctctgcaac   60
ctctgcctcc tgggttgaag tggttttcct gccttagcct cctgagtagt ggggattaca  120
ggtgtccacc accacgcccc gctaattttt atattttttag tagagacggg gttttgccat  180
gttggccagg ctggtctcaa actcctgacc tcaggtgatc cgcccgtgc agcctcccaa  240
agtgtcggga ttacaggcgt gagccaccgc gcctggctaa agcagtgggt tttataaggt  300
atctgtcca gtttctacct tcggtagtga caatgtgttt gtttgcatth cccacacgtg  360
tgtccaatgt ttgcttgttt tcttcttcag gaaatcaact tttgtgagt gtgctgaagg  420
caacangctt tgccagtaca cagaacttcg tgaaaaccac tngaaacngn cacttgctca  480
tctgnccntt ctgngg                                     496

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<210> 10055

<211> 462

<212> DNA

<213> Homo sapiens

<400> 10055

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gagatggagt tttgctctta ttgccaggc tggagtgcaa tggcacgac tcggctcatc   60
aaaatctcca gctcccgggt tccagcgatt ctctgcctc agcctcccaa gtagctggga  120
ttataggctt gcgccaccac acccagctaa tttgtatatt ttagtagaga tggggtttct  180
ccgtgttggt caggccggtc tcgaactccc aaactcaggt gatcagccca ccttggcctc  240
ccaaagtgtt gggattacag gcctgagcaa ctgcgcccgg gctttttttt tttttttaa  300
agatagtctt gctctctcgc acaggctgat tgcattgttg cgtgatctca gctcactgca  360
acctccgctt cctgggttca agcaattctt ggnatttttt agtaaaanat ggggctttcc  420
atattggccc aggctggnct aaactccngg ncttaaacca nn                        462

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<210> 10056

<211> 417

<212> DNA

<213> Homo sapiens

<400> 10056

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gcaaagacaa acattttatt ttcatgata ggagctgtag cagagtatat gggggcctct   60
gccagcccc aggctgggac tggggcctgt gaccttgaga acctcatctc acattctgca  120
gactttggcg gcggggcagt gctcgaccac tggctgggtg ggctgatctc agcctctcct  180
gcaggcccag ggctgaaatc ataaccgtca ggcccagcct tggccaaaga taatgcaact  240
ttggcagggc tggctgctgg gagggggcag gcacttgctc ctctagagc aagagtgggt  300
ttcttcctg accctccctt ccaccccggt aggggtggtt ccttaggaac tcaggcctgc  360
gggagaaatg gttccagctt ctggaggctg ggtgggggtg gggttggggg nnnnnnn   417

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<210> 10057

<211> 437

<212> DNA

<213> Homo sapiens

<400> 10057

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gaccagaaag agactttttc taatacagca gtgttttggc tgggacaggt tggccggact   60
ctccaggaac gtggtgaaga gcgtggggga ggcggctgag gcagggcaga gccagggctg  120
cagagctgtg tgcttcacaa gttggctctg tggtcgggaa ggctccacgg ccataaggac  180
cctggccttt gatttcctgg gaggaacagc acttggaacg gagtaagaat ttcaggcaat  240
cacctggttt cccaatggc tttcttgtct cacggacagt ttaacaaagc tggcagagtc  300
ctgtaactag gatctgtaac ttgggggta agggcaagta ggaacagaca tccaaaacaa  360
ctgagtgtg ggataaaggc ttgaccggaa agatttcagg ggccnnggct ttgtttgcat  420
tntggnaaac tnntcan                                     437

```

<210> 10058

<211> 550

<212> DNA

<213> Homo sapiens

<400> 10058

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ctagagtttg tctattttat tagtcttttt aaagaacat gtatgtcagg tttccttcag 60
gaaatagatg gtgtattcaa actggataat ctaataaagt tatatttata aaagtataga 120
aagagtatag tgaaaccaca agtaatagca gaatcccctg ggactgggac aagaggatgg 180
agcagtcacc agaacctgga gacagagagg gctgcctggc ttcagataat gtcagcatct 240
gtgctgtatg agttccagtg tggcagccct ctcctaaatt accccaattc cctctggatc 300
tgggatctgc tccctcctct tgcccctgag gtctgggggt gggaaaggct cccactcct 360
gctagttcca ggggtgcttca ctggccttta tgagtttccc ttcaccctgt tcacaccttg 420
gtgaatattc tcttctgac atgctcctca gttcnccact tgaatgggcc atctgnttct 480
tggcgggacc ntgactgcac tggttcattc caanctgggt agctgggctt taaattggnc 540
ctgggtaacc 550
```

<210> 10059

<211> 552

<212> DNA

<213> Homo sapiens

<400> 10059

```
gagatggagt cttgctctgt tgcccaacct ggagtgcagt gttatgattt tggctcactg 60
caacctctac catgttcaag cgattctccc acctctgcct cccgtgtagc tgggatcaca 120
ggcacacgcc accacaccta gctacttttt gtattttttag tagaaatggg gtttcacat 180
gttggccagg atggtcccga actcctgacc tcaagtgate ctcctgcctc ggccttccaa 240
agtgtggga ttacaggtgt gagccactgt gcctggccaa aaatgtgatt tcttatttcc 300
cacattgcca attccatttc aattaactat aatagctatg tctattgagc actcaagcgt 360
```


attctagaaa ctgttcctga ttctggggat atatccatga atgaactata gtccctgtta 420
 ttaagtaatc cgtagtctga ctaaaccatt agaaattaaa aaaaaaatgg ctactttcaa 480
 agacatcttg gagttcanga gtcccacact gggaaccatt ttacctaata atncaanctg 540

 nttggaatta ac 552

<210> 10060

<211> 558

<212> DNA

<213> Homo sapiens

<400> 10060

catagggtct cgctctgtca ctcaggctgg agtgcagtgg tgtgatcatg gctcactgcg 60
 tcaactgtagc ctcaccctcc tgggctcaag tgatcctcct gtctcagccc tcccaagtag 120
 ctgggccaca ggtgtgtgcc accatgccca gttttttttt tttttttcgt aaanatgggg 180
 gtctcactac gttaactggg ctggtctcaa actcctgagc tcaagcaatc cttccaactt 240
 ggctcccaa agcgctaggc ttacaggaat gagccaccgt gcctggccan aatcggttac 300
 atatatgtga catatgtgta atacatgtgt gcctgtcccc aggtntcagg gcagagagaa 360
 cacactttct cctactatit taccacaccc ttcttgctgg gaggctatta aacctgaagg 420
 tctggtacta tgtantgggtg aagggtgana tatggattca aaccacactg gggttttaagt 480
 ccctgntttg gcaattaatt ttaatgggac ccctgggcaa ggggaaccnc cttttttggg 540
 ncctgggttc cctngttn 558

<210> 10061

<211> 558

<212> DNA

<213> Homo sapiens

<400> 10061

ctgctcggtg ccattttatt taatgcaaac actagacagt ttacaagtca cacctggaca 60

| | |
|--|-----|
| caagcacgtg aacagatgta cagggaattc tggaattttg agatcagtcc ccatttcttc | 120 |
| ctcagggccc tgggactgaa cacggtctca cagacagcac atattctacg tcacagctct | 180 |
| agggtttcaa ggacttagcc atccgacagg cctcaccata aaggtaaagt ggacaacccc | 240 |
| tgaggtcacg ctgtccaggt ggcgacaggc cacgcatgcc aaaatcctcc atagccacct | 300 |
| ccggcccagc accagccaga ggggtggggcc atcggttctc gacatacttg gtataaggga | 360 |
| gggacaagcc tgacaaagt cacaatctgg ccaatgagtg tgggaggccc tggaaacagg | 420 |
| ccaatcctgc aagccacccc acccttacta acttcctgaa catgggaagc tttttgagac | 480 |
| caggnccaag gttcttttcc tttattggga ccacgcaaaa ggcatttntg cantgcttga | 540 |
| aggtcccccct ttaaaccn | 558 |

<210> 10062

<211> 540

<212> DNA

<213> Homo sapiens

<400> 10062

| | |
|--|-----|
| aaaggga aaaatattt aggtccagga atcaaagatg acttgataga attatgaata | 60 |
| catgcagaat tggatggtta gaaatgaaat caatctattt aggtccagcc taaggttctg | 120 |
| atagccaatc agtagacaca atcagagtag tagtattcct aagaaaccag gataaatctc | 180 |
| caatgtgcat gagtttaatg aaccagatag attattgtat cgccaatatc cacccttate | 240 |
| ccattctcag tcagatgaat tttcttgctc atgagggtcca cattgaaaac agcatgctca | 300 |
| gaaatggggg tcttctcggt gtactccttt cccaggacag gaactcgtcg aggccccaac | 360 |
| agtggatcat caaatctcat cagtttcaat ttggaaaggc ctttaattcc tcgattcatt | 420 |
| ttcattaaac gcctgattat ggaatcacag ntatctnct gnctggattt caattttggt | 480 |
| tgaaaagtgg ccttggatgg ctgggggatt ccncgaaaa accggncccn ccaaggttct | 540 |

<210> 10063

<211> 550

<212> DNA

<213> Homo sapiens

<400> 10063

```
ccaagtcctt tattttactg atgagaaaac agccagagag tgaaagctga tgattacaaa 60
tcacagccat ganagctggg ctctgcactc agccctgctg ggctgggtgg ccgctgctca 120
cggngaccct tcaaggcagg cctcattctg tccagtanag gtgtgggttac taagtcatag 180
agctacagag gtgagggacc aggtgccctc actttggttc caagacccat ctgcacccca 240
caaatgccac cagccacacc tagaacaaaa tggttttaat caattgcgtc accctcactc 300
tcctgggagc ggagcaacaa aaaggctcgg ctctgcccc cagaggacag taaggcttat 360
gtgtctctcc aactgcagg gccaggtctg ggcaggcagg gggtaggaag caggacaggg 420
ggcagggaag gaaggttgn aggcaggga ggaatggca ggtggctgga acccangaaa 480
gccaagggga nccaacttgg nccttgggcc ccagggccca ncccaatac tncngttttc 540
cnttttcctg 550
```

<210> 10064

<211> 548

<212> DNA

<213> Homo sapiens

<400> 10064

```
aatggtgatt tttctttatt tccccgcacc ttcaatctca tggcatggtc tgcaggaaac 60
ctcagagtcc tgccaactcg caggcttcgc tgatcgcatg gcacctgggc accccgccaa 120
agagctgaaa ctccaaggc tcagccagga ctctccagct gtggtgtttc taaaagccgt 180
tctgggtgag atgtagagcc gagttttccc agtcgctcag tcctcctccc gtgaggacaa 240
cactgcttgc tctcctggct tgcctcacc atccaggaaa aggtggggag gggctctagg 300
cagcggcctc tcctggttga aagaaactga gacctgggcc ttccgtccag tttaacctgg 360
agcaggcctg gccctgggc aggctcagag caggctcccc attcagcaaa tgagggtatc 420
ctcctatfff gccaacatcc atcttcaccg acttggcctg aaccattct tgagtacaga 480
nggacacca tgacagaaat nccangtnac ttttgctgga agccactggg ctggaanagg 540
```

acttnttt

548

<210> 10065

<211> 550

<212> DNA

<213> Homo sapiens

<400> 10065

```

agacagagtc tcactctgtt gccaggctg gagtgcagtg gtgcgatctc ggctcactgc   60
aacttctgcc tcccaggctc aagtgattct cctgcctcag cctcccgagt agctgggact  120
acgggagcat gccaccatgc ccagctaatt tttgtatitt ttgtagagac ggggtttcac  180
catgttggcc aggctggtct cgaactcttg acctcacatg atccacttgc cttggcctcc  240
caaactgctg ggattacagg cgtgagccac tgcacctggc cccccctctg ccctctcttg  300
agaggcaagg cattttctat acaggggtga ggaaaagtta aactttctat acagtaagtt  360
agcaatgcc aaatcccaac tgagaaacga tgtaaatttt agtgataggg ctgtaaccac  420
taggtaatgg caaggacata aatcccaata ttcacaagtc cttgtgggga aggggtgtgat  480
attgnatctn cctgncaactt tatgttcata tatggaaaca ttatggaaat gacctattac  540
catcttttta                                     550

```

<210> 10066

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10066

```

gcccctttta caggggagac gtaaagctgt cccagttatc aaaaaattca aatctccttt   60
tcttctgtgg actggctgtc aatgagcttt catccagggt gtctcccatg ttctgggaac  120
tacttccaga tgttctgaa gcacttcctg ggtcaaagga ctctgctgct tccaggagct  180
ccatatcact tccttctttc tcaaaggact tctggaatag gtcgtagatc ttctgcggct  240

```

| | |
|---|-----|
| ttgggtcctt gtagaggtaa tcagtggatt ctgtcatttc tgaaaaattg gtctcagaaa | 300 |
| gcccggcttc tgccagaact ttaatcttct cttgaatcag gggccaaagg tagtcatcag | 360 |
| ctgtgccctt tgccacgagg tagtgaatgc ccacggagct ggtctgtcca atgcggtgca | 420 |
| cgcggtcctc agcctggatc agcaccctg ggttccaaaa cagctcagca aacaccacca | 480 |
| ggtcaacca ngaaaangtg aagnccatat tggcagcggt gatggacagc acgggcacag | 540 |
| catgctttt | 549 |

<210> 10067

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10067

| | |
|--|-----|
| ctttgagatg gagtttcaact gttgttggcc aggetggagt gcaatgccgc aatctcggct | 60 |
| cactgcaacc tctgccttct gagttcaagc gattctcctg cctcagcctc ccaagtagct | 120 |
| gggattacag gcatatgcc aatgcctag ctaattttgt atttttggta gagacggggt | 180 |
| ttctccatgt tggtcaggct ggtcccgaac tctgacctc aggtgatcca cctgcctcgg | 240 |
| cctcccaaag tgctgtgatt acaggcgcga gccaccacgc ccagcctcaa tttaaccttc | 300 |
| tttcttcctt gacaccgcac atcctgactt ctccccctta tcctaatacca ggactactcc | 360 |
| ccactccttc ctagttacct cccctacctt ggggtcctag ttggcaagga tctgccaaagt | 420 |
| ggtctggttc ttgaagaagg tggcgccaac acttttaaaa agaacctaat ggaaaacang | 480 |
| cttgggggtg ggaagggaaa gggttgatta ataataagtt ttctccaaa tagccggaat | 540 |
| ggaaagggtt tgg | 553 |

<210> 10068

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10068

| | |
|---|-----|
| atgtttcaca atttgatgg ctgattctac gcacatttaa atgtgtttat gacaattgta | 60 |
| catttcagtt ttcctctggt taaaccaatg tggaagtaca caggatggga gctgagagac | 120 |
| aagcatcctg ggcccagcca tgctggcctc agtggggcaa gctggggaca gatgacctct | 180 |
| gctccgtgga tcttgctggc tcagggtggg gaaggggcct cagaagagga gtcaggctct | 240 |
| cctctttatt ctctcacag ccatggtgaa tggcattcct gggaggctgg tttggagaac | 300 |
| tcgctgaacc taagttagca ggaagtgaag gtctgttccc acctgtgcct gtgttcccag | 360 |
| atagcagctg cctccaggag actcaccagg agccaggtec ctccatacct gatctcaatt | 420 |
| aactcactca ccaaggagcc caggtccttn ccatacctga cctcaattaa acttaactta | 480 |
| cccaggagcc aaggtccctc cattacntn anttaccac aatcaagtnn ccttcanacc | 540 |
| ttatcttaat tan | 553 |

<210> 10069

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10069

| | |
|--|-----|
| caagtttagg gatgtgctct atatttgcatt ttttcttttt aaaaggcaca gtttttattt | 60 |
| taacgacgct gcattgctct ttgatgatga atctcaattc gactcctcaa actgtcaaca | 120 |
| ctcttggtat cctagattct agaaggggcc tcatcttttg acttctttct atagagggcc | 180 |
| acatctaaag ctacagcact catttggaag aggacactgg gatcaacacg taagcgttgc | 240 |
| aagcacaggg gccgcctctc ttgcagacag gtggccaaag cagggttgt gctggggccag | 300 |
| aagtggaagt aattcctcgc cagctacaca ttcagtctga ctgggtgatg attgggagtg | 360 |
| ttgtccctc cctcccccaa taattgatgg ccttgagatc tgccagcatc tcaaaggcag | 420 |
| attcgtggct ctgttcccag acttaggtct cagttattta attggtaaata gacacaatca | 480 |
| aagagactca acacttaatt gggaatgctg attcaagtat ttcctgggct aactngtggg | 540 |
| agccataaat tgg | 553 |

<210> 10070

<211> 504

<212> DNA

<213> Homo sapiens

<400> 10070

```

gaatggaaga tattgcaaca ctgggcccac agatitttagc aatagcaaca ttgacaggga    60
gctgggttagc agttgccctc atctgatagc acatgcattt tctagctccc tcaagttctc    120
tctgctcact ttggtacctg cctggctttt atagacatca gagtttgaaa tctttttggt    180
tgtttgtttg ttgagacag ggtctcactc tgttgcatag gctggagtgt agcggcctga    240
tcacggttca ctgcagcctc tacctcccag gctcccgaga tcctcccacc tcagcctccc    300
acctagctgg gaccacagcc atccaccacc ataccagct aactttttgt attttttgta    360
aagaccatgt ttcgtcatgt tgctcaagnt ggtctcgaac tcctgagctc aagcgatctg    420
cccacctggg cctcccaaag tgctgggatt acaggcgtga cccactgngc atgacctgaa    480
atnnttattt natngnnaa cttt                                           504

```

<210> 10071

<211> 569

<212> DNA

<213> Homo sapiens

<400> 10071

```

gttgctttcc cagactttta ttgaaatgt gactgctttg taaaactcca gagtcaagga    60
ctcataggca ggaggatgtc ataaattaac aggaaaggat gagaaatctc cactccactc    120
cctcctccct cccttgatca ctcatccct ctcttacatt cattaaccac ccactacatg    180
ccatgcccta aggaagcagc tatctaagaa gtccctgcct gcaggggctt tacagaccag    240
gaggaaggca acccatagag ccaggatcct gataaccact gctgactgcc cctctgccta    300
ggcaccagct aaggtggctc caaaaagtga ggccttgntg ggaaggggaa aaacagcaaa    360
ggtcagcttg gatgaacca tccagaattt tgcaatcaga aatacctana aaagaattat    420

```

tttagaagaa cagggggatg ccagggcctg gggatgagga atgatgtttt cagtgcctaa 480
 ggcccctgaa ngtcttggtc ttncctgctca aaaacgcaag ggggggtccca ggttgccttt 540
 tcanagcctg cctttaatnc tggcanttc 569

<210> 10072

<211> 570

<212> DNA

<213> Homo sapiens

<400> 10072

cactgctttt cctttattga taggtcagag agcatttcct ggcacccccca gggtacagcc 60
 ccctgactcc tgctacccaa gaaggccacc ctttcctgcc tgtgatactc cgtggcaict 120
 gttctgccag aggactgacc ctttgtgtc cacaatgttt ttgccaggaa acacttatct 180
 cagccacaaa cgtccctgt cctccaaaag actcagagct gcttacaagg ggctgctttg 240
 gtcagtcagc tgtagtcct ggggtctctg cctcctctgt gggggtagca tcagtcaccc 300
 taaagttctc aggccgccgc tagctagtga gttacaagat tttagaaacc agctcttgtc 360
 cacagatcct caggccccctg gttcttggat ccagaggcgt ctgaggtagt ttcacaggca 420
 cctgctgctg ctgctgtgc ctctgtctt gccctcagtc cccgtctttc cacctgggtc 480
 cccttgcaat ttcatgcctg angctgactg gtggccaagt cttaaactgag ggncttccgg 540
 anaccgagaa cccgccgaac ngccttggan 570

<210> 10073

<211> 564

<212> DNA

<213> Homo sapiens

<400> 10073

cttctgagac agagtcactg tcgccccggc tagagtgcag tggcgtgatc tcagctcact 60
 gcaacctcca cctccgggt tcaagtgatt ctctgtctc agcctcccaa gtagctggga 120

ttacaggtgc ccaccaccac acccagctaa tttttgtatt tttagtagag acgggggttc 180
 accatgttgg ccaggctagt ctcgaactcc tgacctcagg tgatccaccc gccttaacct 240
 cccaaagtgc tgggattata ggctgagcc actgcacca gctggaaaat acttcttaaa 300

tgcaatttat aagcatgtgt attagtttcc tattgctggt ataacaaatt actacaaact 360
 tagtggctta aaacaacaca gatgtgttgt cttacagttc tagaggttag ttctaaatag 420
 gtctcactga gctaaatcca cgggtgcagc agagctgtgt tctttcctag agcttctagg 480
 ggagaatctg gtttcctggc tttttccagc atctagcact ggcacanttc tttggcttgg 540
 gancttggtc catnttaaatt tcat 564

<210> 10074

<211> 574

<212> DNA

<213> Homo sapiens

<400> 10074

aacaagtaaa tcattggctt tattctgggt cctggaagct ccactgtgag tctgaaaaaa 60
 agacagaaca ggggcggcag ccctgggggg tgggtgcagaa aatagtcctt ggctcctctg 120
 gccctgggag cctaaagggc agtgaggaga aggcttagca agaggcctgg agcaggggaa 180
 gtcaggtccc tcaggaaccc ctctccccc agaggaagga ggaagagggc tggagagtct 240
 gctggagagt ctgctcagtt cctcagcaac tgcactgcag gaggtgcag gccatggggt 300
 actccttgcc cttctcaggg gcagtgggct cccagagcca cttggtagtc cccaggggct 360
 cagtcccagg gtccagccgt gactccccta agggcccctc gccctccaag tccagctcct 420
 caaaagagga gcccgtggc gcctgactcg ctgtagctgt gctcgtgcg ggtgtcaccg 480
 tcatcccagc cacngctgna cgccccagtg acagtgtggc aacttgaagt cttcccgggt 540
 gcaaggctta ctttcagctt acagaactcg ggtn 574

<210> 10075

<211> 554

<212> DNA

<213> Homo sapiens

<400> 10075

| | | | |
|-----------------------|-----------------------|-----------------------|-----|
| agaaaataaa aactttat | ttttcaagtt tataagatag | ttcccattac atataacatt | 60 |
| acggtcacgg attctacagc | cacaaatgcc cgcagtcaca | taaataatc caatccaatc | 120 |
| aatgcctttt cctgctaaca | gaggeatctg aagttcagag | ggagagtcgc attttaagta | 180 |
| aaagtcgtcc ttaatgggag | ggctcctgtc agtgcattag | gaactagcca aggagccttg | 240 |
| cttgccagag ctgtctgact | cagaggagag gaagggacag | atggcctgct gactggggct | 300 |
| gaggcagaac tagattttct | ctcttggtt ttaagatatt | ttagaatctc ggaattcaga | 360 |
| tcctatagtg ggaatatctg | gggagttcta acttctggat | gaaaaaggaa accaatttag | 420 |
| tggtagaata tagaagcctg | cttaagaggg accctaactg | cctccttgag gagtaaggag | 480 |
| tcagaggaag accctaagct | naccattcct tggnccaacc | attgntntac ccatacttc | 540 |
| tttcctggg ggtn | | | 554 |

<210> 10076

<211> 540

<212> DNA

<213> Homo sapiens

<400> 10076

| | | | |
|-----------------------|------------------------|------------------------|-----|
| cttttttatt tgagacggcg | tctcactctg tcaccaggc | tagagtgcag tgggtcgatc | 60 |
| tgggtcact gccagctcca | cctcccgggt tcacgccatt | ctcctgcctc agcctcctga | 120 |
| gtagctggga ctacagggat | ccaccaccat gcccgctaa | ttttttgtat ttttttagt | 180 |
| agagacgggg tttcactgcg | ttagccagga tggctcctgat | ctcctgacct cgtgatccgc | 240 |
| ccgcctcggc ctcccaaagt | gctgggataa caggcgtgag | ccaccgcgcc cggccaccat | 300 |
| tggctctttc tatgcacca | gttgatggg caatttacct | atacctggca gacaaaagg | 360 |
| aagataactt ggggcctcgc | agctgtgcgc acccatgga | aaccaccaca cagcattttt | 420 |
| tttttttttt ggagacagag | tctcgttctg ttactcaggc | tggagtgcaa tgggtgtgatc | 480 |
| tggntactg naagctccac | ctnctangtt caagcgattc | tncctggctta ncctcctang | 540 |

<210> 10077

<211> 565

<212> DNA

<213> Homo sapiens

<400> 10077

```

cacctaagtc tttatttatt tggctctagg aagaatttgc atgaaaatga gcctgtatgg   60
caggtacaga atgtactgta acagcaccag agaggtagat cctctctcct ctacagagcc  120
tcaatgttta atacatacat gtgacttttag tcataaaacc acatagtcca ggaaaaaagg  180
agcccttttag aaaaaaaaaa tcagttttaga atgactttca aattgaccat tccttttcaa  240
atacttaaat tcaaataaca gataattca gaggcccaaa tgttggcata gaataaaatc  300
atgttcattt atttttttct gcatcttaga attagaaggc ataaaattaa atatgttgaa  360
tgtaataaat tcatccatac aagtgaagt ctccagatat aatgcatttt atggcagatt  420
tattatttta aaaatgtgcc agtaaataca aaaaagaggg agtatgncca tttaactttt  480
aatggaagng atgtaggagg cttcagaaat caaatgngag cntgaaaatt ggccaacctt  540
aaaactttca aatctgggna aagtg                                         565

```

<210> 10078

<211> 499

<212> DNA

<213> Homo sapiens

<400> 10078

```

gtagagacag ggtctcgcta tgttgccatg ggtggtctca aattcctggg ctcaagtgat   60
cttctcacct cagcctccca aagtgctggg attataggca tgagccactg cacctggctg  120
agatgaaagg tcttactcac ttttcctggc tctttactcc tgggtgtggca ctatacaaag  180
ccatgacgtg gaaactgagt cacatactc ctagttgggc cactcaaaat aactcagatt  240
gccatccacc catctttttg gaaacgtaag tttccactaa atgttctatg tgggcacaga  300

```

| | |
|---|-----|
| ccagtacaga gggaaacagg ttataattag ggagagctgt tgctcttgga accttctgga | 360 |
| ttttaatggc cccgagaaat caagtcaaaa caggcttcat gctgttgctg acttgccagc | 420 |
| cattgctgac ctaaaaatag angaaggggc cataaaccaa tntacatang tggcctntaa | 480 |
| cagctggaaa angcnaaan | 499 |

<210> 10079

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10079

| | |
|---|-----|
| agatggagtc tcactctgtc gcccaggctg gaggcagtg gcacaatctt ggctcactgc | 60 |
| aacctctgcc tgccagggtc aagcgatctt cctgcctcgg cctcctgagt agctgggatt | 120 |
| acagggtgtgt gccaccacac ccggctaatt ttgtatctt tagtagagac ggggtttcac | 180 |
| catgttggtc aggtctgtct caaactcccg acctcgtgat ccgcccgcct tggccttcca | 240 |
| aagtgtctgga attacaggga tgagccactg tgccggggcca aagcagaatt taaatcagca | 300 |
| attgggatac aatattagtg cagataattt aactagagt catatttata tctgncacag | 360 |
| tattaaagta taccacatat gtatggactg ntagaagaaa ttcatttcat ttttaaaagc | 420 |
| aatggattgg ttaataaggt taagttcttt aacactttct ttaaaattcc tggcaagggt | 480 |
| aacttcatt ggcnttttta aatngaaaaa ccnaaccnaa ccaaacttaa accccaagcc | 540 |
| acnccccaaa atggtaagtt t | 561 |

<210> 10080

<211> 556

<212> DNA

<213> Homo sapiens

<400> 10080

| | |
|---|----|
| ggtagacagag tctcgttttg tcgcccaggc tggagtgcag tggtagcaatc tcggctcact | 60 |
|---|----|

gcaacctctg cctcctgagt tcaagcaatt ctcttgcctt agcctcccga gtagctggga 120
 ctacaggcgc cggccacat gccagctaa tttttgtat tttggaggag acggggtttc 180
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 cccaaagtgc taggattaca ggcatgagcc accatgcccg ggccccttcc ctttgatttt 300
 aataacactt agagtaatgt agtggtctgg atccagaaga ttacttctgg aacaattagt 360
 gaccaacaac cacccttata ctgacataa aactgagcag gtttagggac aganggaant 420
 gtgaagtcca ccagctnttt cacactgngc ttataagaac caaatctggc caatgtgacc 480
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 tntntgggac tggtaa 556

<210> 10081

<211> 421

<212> DNA

<213> Homo sapiens

<400> 10081

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 taggaccaca ggctgtcaac accacacca gctaccact cattttttgg ttgaatgaac 180
 agcttaaatt cttgttctga cccaagagcc ttgcaactgc ctcttctcc tgcctgctta 240
 tccccagtt atccacctgt tccctccctc atttcttca attttatttt tttctgcaat 300
 ggggccttcc ctgactacca cttaaaattg cttgcttggg tacaatggct cacgcctgta 360
 atcccagcac tttgggaagg tgaagtgggt ggatcacctg aggnangan tnnanacca 420
 n 421

<210> 10082

<211> 525

<212> DNA

<213> Homo sapiens

<400> 10082

| | |
|---|-----|
| acggtaggta ataagattta ctgaaaacgt ctcggccaca ttcagtactg gtttggtgga | 60 |
| tacatcagaa ggaggttgca taacattagg caggtggagg ggctgagagg aagagatgtg | 120 |
| ggcacctgtg tgccagtgtg tccgtgctgg gggacgcctg tccaggtggt gagtggaacg | 180 |
| gtgtgtgtgt gtgtctgtgt gcgcgtgtta acaagaaaaa cgaaccagaa aaggaagtgc | 240 |
| attttatccc actgcacatt gcaaaagtct cagccaaaaa aagctagact ttcctctatg | 300 |
| tatggcatca aaagggagta aaaaatgatt ggatcaccca gattataaat aagggtatgt | 360 |
| gnttctcaaa aatccttatt aaaacattaa atatcanctc ttttgggggg agaaatacat | 420 |
| tcatttcagg gagacctcgg aagaatggnc catnctttg nttntacccc aaccagtggg | 480 |
| ggaaggggaa nccccaaaag ggccaangg ggtccctcca gttga | 525 |

<210> 10083

<211> 552

<212> DNA

<213> Homo sapiens

<400> 10083

| | |
|---|-----|
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| tgcatccac atttctctc tgcccagaag gcagatggga gaataattca ccaaagtta | 120 |
| gacacaggta aattgagggg agggtttctt ttttcttttt gtttttttga gccaaagtc | 180 |
| gtcctgaaa aaaaatgctt actgaggaaa ataaacacct cgagctcaag cagctctcag | 240 |
| gagtatgtag tccctgccct gaggccactt atcatctagt ttgagaagag acaggtacaa | 300 |
| aaatagctca aacatcaggt gccagcagtt caggggaggg atctgaaaag gcagcaaggc | 360 |
| actaaatcag caccccaacc tggttttgtg tttgntttct taaacctgcc agcaccaact | 420 |
| cttcatcacc ttgcaaattc aagaccatct ttggaaaaga cagttaggac tgacttgcaa | 480 |
| tggctttggg aatcttacct acccccatgg ntggttttct anggcctngg gncanggct | 540 |
| cctttaaaaa gg | 552 |

<210> 10084

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10084

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gttattatag gcatttatta ctaactatag tccttcttgg aaggaacacc caaaccaata   60
cttataaagt acatgtaatt tatagtaaca tattttacta tatacatatg gaaaaaatca  120
tattctcaca gaagagctga acagacattc accaggatac gactgttgga ccagctgctg  180
gagatggacc tgctaccctt cagcagcctc cccaccacaa gacaagtgat ctcaatgtcc  240
ccaaacctgt gggaccctgt tctacacacc tcatttttgt tccggcgttt catcctcctt  300
gtgtgattgt actgattttc atgagacaca agttacttct ttacatccat attcccaaag  360
cagggttaca tggtaggaaa gaaaggaaat tggaggtact aagctcattg ggnctcctct  420
agcttttacc agcatctaata gcttcactgn tttttttcca ttggagactt taatggcact  480
tggataaata catggagggtg gttttttcct caaaatggan taccccaatt aagactggga  540
agggcccaaa aaa                                     553
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<210> 10085

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10085

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ccaccacact tggcctccca aagtgctggg attacaggca tgaaccattg ngcctggtct  120
tggtaaatct tttgaacttg cagtttagcc aatcctgaac tgtaaatgta agaacaacag  180
atgtggttta ttactgngca taccgcctt tgttcagcca gaagatattc cagggcacaa  240
ctgttatcca agacagcatt ggctagggag tgcagggagg cttgatgtcc ttttatggct  300
ctgcctgtac tagttgccag tgtttcaagg gtttgaaagt ttctcaaagc tggctgacag  360
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tatgcaaaag ccattccaag gggctatttc aacttctggc caaaatagnc ctattggctt 420
 ttagaattta ccccatgngn gaaattatga actggntatt ctactgggac cttaaagtnc 480
 ctaaacaagg catttcctta tggggtggac cattnttccc cccaangggc ncccttttgg 540
 caagtaaat 549

<210> 10086

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10086

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 cgcccggcct gcctgcttag tttctggctg tcacttagct ttgcaaggct gggagcagca 180
 ctccaggagg cagaggaagg gaacacatgt tcagactggg gaataccata ctaagtgtac 240
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 gcctgatgga gaagcagaga tttggggcgt ggggctggag gaacagccag tgccacttgt 420
 tcctctgaag caagtggnet taaaaccacc ttntggcctt cccagctact tgggcatgct 480
 tntaccaagg tgtnaaggct naatgggccc ggggccactt aattgggcaa gggttgntnt 540
 tangaaaa 549

<210> 10087

<211> 551

<212> DNA

<213> Homo sapiens

<400> 10087

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特平 11-248036

agagccccct tcccgttac aggctggacc agttacagtc ccgggcagga gaggtctggg 120
attgttgtga aaatggggtg ggggcggtgt gtttggctgc tgataatgaa ggaatttagt 180
gcagccaggg gttaggcctg ggacctgcct gacaggatgt ttctcacagc tcaggccctg 240

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tctggctgct tcctgctgga taggggccgt tgtgattagg gcctgggttc tggagcttcc 420
gaatggtttc ctggaagctt tggattataa cctggcaaaa ggtgaaatat attatcaatg 480
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aaggttaaat t 551

<210> 10088

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10088

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acctgcccag catgggtacc taactggggt ttagggtagg gggacagagg gctttttaag 120
ttttttttt ggaatggg attaatagac acagctcggg tagggtccac tcctggttcc 180

<212> DNA

<213> Homo sapiens

<400> 10089

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aaacctctgc ctctgggct ccagccatcc cccaacctca gcctcccaag tagctgagag  120
tacaggcatg caaccacacc tggctaattt ttgtattttt gtagagatgg ggttttgcca  180
tgatgcccag gctggctctca agtcctgag ctcaagtgat cctctcgctt tggtttccca  240
aactgcttgg attacaggca tgtgccacca catccggcct aaaagttttt aagagtaata  300
agcaaaggta gatgtgtatg tgtgtgatac tgatcatggtg acatttgtcc aaacctatag  360
aatgtgccaa gagtgaacac tgtggactct ggttgatggt gatggatcaa tgcagtttca  420
acaactgtga cacatncacc cctntggagc gagangtctg cantggggan gctatatggg  480
natngggggg                                     490

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<210> 10090

<211> 470

<212> DNA

<213> Homo sapiens

<400> 10090

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aaggctctgt gctttcatag gaactggaga gcaattgtca acaagggaaa ctgaaagaat  180
ggccttcaga actctggctg acggcagcct gttcttttgt taagctaatt tagacctttg  240
ttcagctacc aggagagaaa attaggtgta ggagccctgg tccaagctc tggctcttaa  300
acaccatcat cctgctttac ctctacaacc atcccacggn cctattatat ggatgagggt  360
aaagaaacac gtncaangcg ggatattccc cttcagtgtc tatcacctan ttgagggatc  420
caaacanggc cacctgccaa anctaaggac caggaccagg ccancctang  470

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